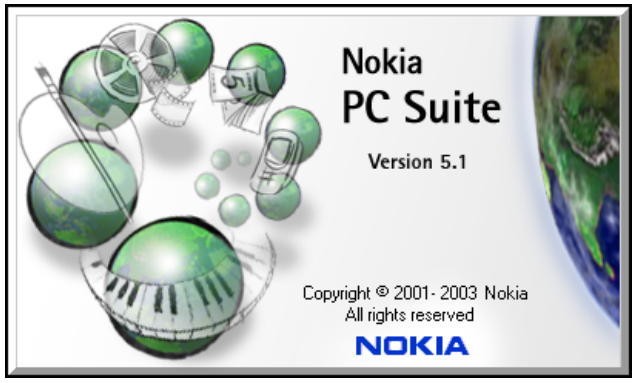
Nokia PC Suite 5.1
User Guide



and
PC/PDA Connectivity Guide for the following Nokia phones: 5100, 6100, 6200, 6610, 6800, 7210, 7250, and 7250i

NOKIA
CONNECTING PEOPLE

The Nokia 6200 phone is approved for use in GSM 850 MHz, 1800 MHz, and 1900 MHz networks. The Nokia 6800 phone is approved for use in GSM 850 MHz and 1900 MHz networks. The Nokia 5100, Nokia 6100, Nokia 6610, Nokia 7210, Nokia 7250, and Nokia 7250i phones are approved for use in GSM 900 MHz, 1800 MHz, and 1900 MHz networks.

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1 Introduction

This guide provides you with the following information:

- Installation instructions for Nokia PC Suite 5.1
- Instructions for using Nokia PC Suite 5.1
- Instructions for using your phone as a wireless modem

• OBSERVE SYSTEM REQUIREMENTS

To install and run Nokia PC Suite 5.1, you need:

- A Nokia 5100, 6100, 6200, 6610, 6800, 7210, 7250 or 7250i phone
- At least 64 MB of RAM
- Windows 98 (First or Second Edition), Windows Millennium Edition (ME), Windows 2000 Professional, or Windows XP (Home or Professional)
- At least 150 MB of free disk space
- Infrared port on your PC, or the optional DKU-5 data cable (and an available USB port on your PC)
- Compatible Personal Information Manager (PIM) application for use with Nokia PC Sync

Note: Nokia Content Copier (a component of Nokia PC Suite) supports a variety of Nokia phones, some of which make their connection to a PC using the DLR-3P data cable. For a list of compatible phones and connection methods, see "Learn about compatible phones" on page 7.

• LEARN ABOUT COMPATIBLE PIM APPLICATIONS

Nokia PC Sync is compatible with the following Personal Information Manager (PIM) applications:

Application name	Version
Microsoft Outlook	97, 98, 2000, 2002
Outlook Express	All (using Windows Address Book)
Lotus Notes	5.0, 6.0
Lotus Organizer	5.0, 6.0

• UNDERSTAND REQUIREMENTS FOR DIGITAL DATA CALLS

Before you can make digital data calls using your Nokia phone as a wireless modem:

- You must subscribe to digital data services with your service provider.
- Your phone must be powered up, and digital service must be available. Digital data calls are not available when outside of the digital network.
- Your phone must be connected to your PC or handheld device using infrared or the DKU-5 data cable.
- Your data software must be running and must be configured to recognize your Nokia phone as the active modem (see "Wireless modem setup" on page 30).

Note: This feature is available only if your service provider's network supports digital data and fax calls. Check with your service provider for the capabilities of their services.

• PRINT THIS GUIDE

You may find it helpful to print this guide for future reference. No other applications should be running during installation of PC Suite and the modem setup. Therefore, reading this guide using Adobe Acrobat reader during installation is not recommended. Printing a copy of this guide provides you access to the instructions during the installation process.

• OBSERVE TERMS

For the purposes of this user guide, the following terms are used:

Term	Description
MMS	Multimedia Messaging Service
PC	Personal computer (refers to both desktop and laptop)
PIM	Personal Information Manager
ISP	Internet Service Provider

• COMPLY WITH SAFETY NOTES

- Please refer to the user guide of the product for instructions on operation, care and maintenance, including important safety information.
- Do not switch on your phone when wireless phone use is prohibited, or when it may cause interference or danger.
- When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.
- Please make backup copies of all important data to protect against possible loss or alteration.
- To avoid any potential loss of data, you should not make or receive calls while synchronizing data between the phone and a PC.
- Do not point the IR beam at anyone's eyes or allow it to interfere with other IR devices.
- To disconnect the cable from the phone, hold the connector and remove the cable.

• LEARN ABOUT IR COMMUNICATIONS

IR) is one of the available options for connecting your phone and PC. If you choose IR as your method of connection, note that the distance between two devices in an IR connection is a range of three inches to three feet maximum. There must be no obstructions between the two devices and the IR ports of the two devices have to be pointing at each other.

Your Nokia phone is a Class 1 laser product.

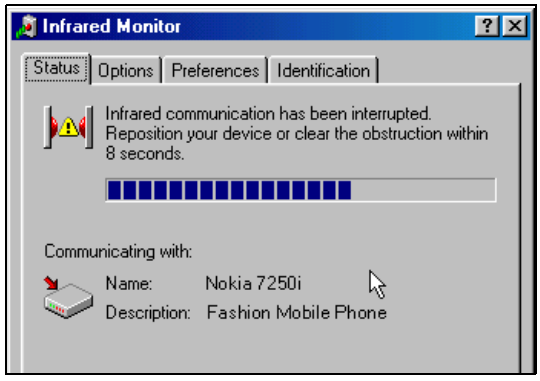
Enable IR communications

Windows Millennium Edition (ME), Windows 2000, and Windows XP (Home or Professional) users do not need to enable IR communications on their PC prior to using this feature. The IR port is always active.

If you use Windows 98, you can use the IR control panel to activate or deactivate IR communications. For more information on enabling IR communications on your phone, refer to the IR section in the user guide for your handset.

Interruptions to IR communications

Your Windows operating system provides visual and audible notification when it senses an interruption to IR communications between your phone and PC. Windows allows you to re-establish IR communications between the two devices so it can resend the data that was being transferred when the interruption occurred.



Learn about IR time-out

If the IR connection between your phone and PC has not been re-established within 15 seconds, a *time-out* occurs, meaning Windows no longer searches for your phone and terminates the IR connection.

2 Nokia PC Suite 5.1

Nokia PC Suite 5.1 is a collection of powerful tools that you can use to manage phone features and data. PC Suite consists of the following components:

- **Nokia Connection Manager** allows you to monitor the serial connection between your phone and PC and switch to a different type of connection (cable, IR, or Bluetooth) when copying data from one phone to another.
- **Nokia Modem Options** automatically installs your phone as a wireless modem and provides a Windows Control Panel application used to configure wireless data settings.
- **Nokia Application Installer** is used to install Java™ applications from your PC to your phone.
- **Nokia Content Copier** allows you to copy data between two Nokia phones, to back up phone data to your PC, and erase data from your phone.
- **Nokia Image Converter** converts and optimize graphics for use in MMS messages or for creating wallpaper for your phone.
- **Nokia Sound Converter** is used to convert Standard MIDI Files (SMFs) or General MIDI (GM) files for use with MMS messages and as ringing tones for your phone.
- **Nokia PC Sync** allows you to synchronize phone data (contacts, calendar items, etc.) between your phone and PIM applications such as Microsoft Outlook and Lotus Organizer.
- **Nokia Phone Browser** allows you to browse the contents of your phone using Windows Explorer or My Computer.
- **Nokia Phone Editor** allows you to edit your contacts list and settings, as well as send and manage SMS messages from your PC.

• LEARN ABOUT PC SUITE VERSIONS

This user guide can be used with Nokia 5100, Nokia 6100, Nokia 6200, Nokia 6610, Nokia 6800, Nokia 7210, Nokia 7250, and Nokia 7250i phones. The version number of PC Suite for your phone may be an incremental version of Nokia PC Suite 5.1. For example, PC Suite 5.1 for the Nokia 6800 phone appears as Nokia PC Suite 5.16 during installation. Selecting the correct phone model when downloading the software from the Nokia Web site ensures you have the correct version for your phone.

The illustrations in this guide are provided as examples to help you learn more about your phone and PC Suite. The actual name and model number of your Nokia phone should appear on your system.

• INSTALL PC SUITE

The Nokia PC Suite program is provided free of charge and is available for download from the PC software downloads section of the Nokia Web site:

http://www.nokia.com/us.

PC Suite is available for download as a single file (for broadband users) or in several segments (for slower or dial-up connections). If you downloaded the application in segments, double-click the first segment .exe file and follow the instructions to extract the installer application from the segments.

Install DKU-5 data cable software and hardware

The Nokia DKU-5 data cable provides a means of communication between your phone and PC. If you plan on connecting your phone and compatible PC using the DKU-5 data cable, the cable and software *must* be installed and configured properly before you can install Nokia PC Suite. Please follow the instructions found in the data cable sales package prior to installing Nokia PC Suite.

Install PC Suite software

Nokia recommends that you select the same language used by your PIM application when installing PC Suite. Once the PC Suite software download is complete and/or the segments have been rejoined:

1. Double-click the PC Suite installation file that you downloaded to your PC.
2. Select the desired language for your software installation, then click **OK**.
3. Click **Next** to begin the software installation, then read the end-user software agreement.
4. Click the **I accept the terms...** option to accept the agreement, then click **Next**.
5. Review the safety notes, then click **Next**.
6. Click **Next** to confirm the default installation location.

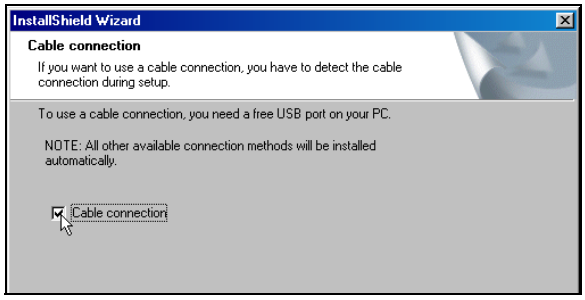
7 Observe the list of available PC Suite components, then click **Next** to install all PC Suite components (or clear the check boxes of the components you do not want to install, then click **Next**).

Select modem connection options

If you choose to install **Nokia Modem Options**, you must now select the connection methods you want to use with your phone. For more information on this phase of PC Suite installation, see "Wireless modem setup" on page 30, then return to this chapter for more important information.

Select PC Suite connection method

If you choose *not* to install **Nokia Modem Options**, you are now asked to indicate whether you wish to use the DKU-5 data cable to connect your phone and PC. The IR connection software is installed automatically.


InstallShield Wizard
Cable connection
If you want to use a cable connection, you have to detect the cable connection during setup.
To use a cable connection, you need a free USB port on your PC.
NOTE: All other available connection methods will be installed automatically.
Cable connection

If you have already purchased the DKU-5 data cable and have it installed properly, select this option now to install cable communications services.

1 Select **Cable connection**, then click **Next**.

2 Click **Next** to confirm the detection of your phone on the correct COM port (as needed).

3 Continue through the installation wizard, then click **Finish** to restart your PC.

Once you have rebooted your computer, you may begin using the various PC Suite programs.

Note: If you do not have the DKU-5 data cable installed, the **Cable connection** dialog box is omitted from the installation process.

• ASSIGN A FAMILIAR NAME

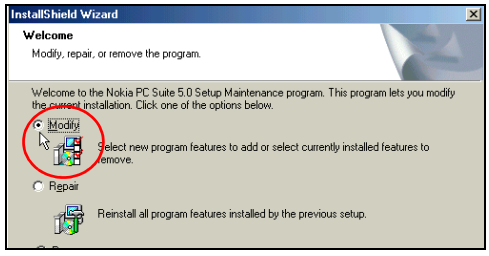
Nokia PC Suite supports multiple users and several different phone models. The first time you connect phone and PC after installation, you are prompted to choose a familiar name for your phone.

The name you choose is used primarily by Nokia Phone Browser when displaying the contents of your phone. The familiar name also allows you to store data for multiple phones or users.

See "Nokia Phone Browser" on page 23 for more information.

• UPDATE YOUR INSTALLATION

If you are using IR as your serial connection but decide to purchase and use the DKU-5 data cable, you need to modify the program installation.


InstallShield Wizard
Welcome
Modify, repair, or remove the program.
Welcome to the Nokia PC Suite 5.0 Setup Maintenance program. This program lets you modify the current installation. Click one of the options below.
Modify
Select new program features to add or select currently installed features to remove.
Repair
Reinstall all program features installed by the previous setup.

Nokia Connection Manager may not be able to recognize your phone unless the cable support software is also installed. To add cable support:

1 Connect your phone to your PC using the DKU-5 data cable.

2 From the Windows **Control Panel**, double-click **Add/Remove Programs**.

3 Click **Nokia PC Suite 5** in the list of installed programs, then select **Add/Remove** (Windows 98/ME) or **Change/Remove** (Windows 2000/XP).

4 Select the **Modify** option from the PC Suite installation wizard, then click **Next**.

5 Proceed through the wizard until the **Cable connection** screen appears.

6 Click the **Cable connection** option, then click **Next**.

7 Continue the process by clicking **Next**.

The installation wizard tries to detect the COM port where your phone is connected.

8 Click **Finish** to complete the setup.

9 Restart your computer.

Important: The DKU-5 data cable and software *must* be installed properly before you can update your installation of Nokia PC Suite. Please follow the instructions found in the data cable sales package prior to updating PC Suite.

• CHANGE LANGUAGE OR REMOVE PC SUITE

The language chosen during installation for PC Suite applies to all of the PC Suite components and Help applications. If you need to change PC Suite to a different language, you must reinstall PC Suite.

If you need to remove PC Suite (including all components), use **Add/Remove Programs** (located in **Control Panel**). Remember to close any PC Suite applications that are running before you begin.

3 Nokia Connection Manager

Nokia Connection Manager is a utility that allows you to select or change the type of connection between your phone and PC. You may need to use Connection Manager when (for example):

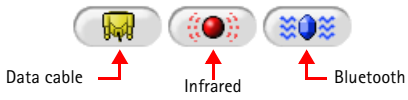
- You need to select an IR connection because your DKU-5 data cable is not readily available.
- You have chosen IR as your connection method, but the compatible phone containing the data you want to copy (using Nokia Content Copier) supports a cable or Bluetooth wireless technology.

Select the connection type

You can have multiple connection types selected simultaneously.

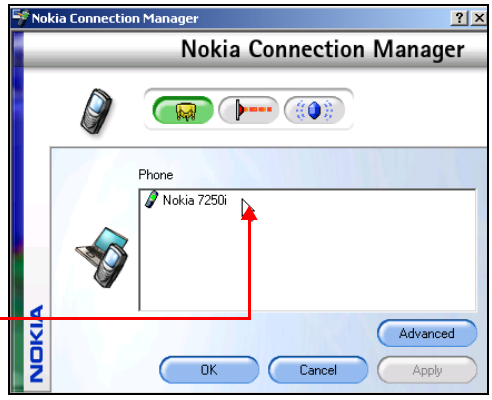
1 Establish the appropriate connection between your phone and PC (using IR or cable), then double-click the Connection Manager tray icon (or select the **Connection** option from a PC Suite application's menu).

2 Click the button that corresponds to the desired connection type:



Selected/enabled buttons are indicated by their green color.

3 Allow Nokia Connection Manager to detect your phone, then click **OK** to return to Nokia PC Suite or the desktop.



If your phone is not detected within 10 seconds, switch the connection type off then on again. This action forces Connection Manager to redetect your phone.

Important: An error message may be displayed when selecting IR if IR communications is not enabled (or not installed) on your PC. Please make sure IR communications is enabled on your PC prior to selecting IR in Connection Manager.

Important: Even though your Nokia phone does not support Bluetooth wireless technology, Bluetooth support is included for compatibility with other Nokia phones.

Disable Connection Manager for wireless modem use

When you close one of the PC Suite applications, Connection Manager may not always release the COM port assigned to your cable or IR connection. Before Dial-up Networking or other data/fax software can communicate with your phone using the DKU-5 data cable or IR, you may need to launch Connection Manager and turn off cable or IR communications. This disables automatic detection of your phone and releases the COM ports for use by other Windows applications.

To disable Connection Manager, double-click the tray icon , then click the appropriate buttons to disable cable or IR communications.

4 Nokia Content Copier

Nokia Content Copier
Welcome
Welcome to Nokia Content Copier! The Nokia Content Copier wizard allows you to
back up data on your Nokia phone to a PC, and restore it to a phone
erase data from your Nokia phone
Click Next to continue. You can exit the wizard at any time by clicking the Close button in the upper right corner of the window.
NOKIA

Nokia Content Copier is a powerful application that allows you to perform the following tasks:

- Copy data from a compatible phone to your Nokia 5100, 6100, 6200, 6610, 6800, 7210, 7250 or 7250i phone (or between two Nokia 5100, 6100, 6200, 6610, 6800, 7210, 7250 or 7250i phones).
- Back up phone data to your PC, then restore the data back to your phone.
- Erase data from your phone.

• LEARN ABOUT COMPATIBLE PHONES

One of the most powerful features of this application is that it supports other compatible phones. This capability is especially useful if you are upgrading to a new handset and want to transfer data from your old phone to your new one. You can also use this application to transfer information between other Nokia 5100, 6100, 6200, 6610, 6800, 7210, 7250 or 7250i phones.

The following table shows a list of Nokia phones compatible with Nokia Content Copier (other than your Nokia 5100, 6100, 6200, 6610, 6800, 7210, 7250 or 7250i phone), as well as the method of connection to the PC:

Nokia model	Method of connection
3320, 3360, 3361	IR
2270, 2272, 2280, 2285, 3670, 3570i, 3585, 3586, 3586i, 3588i	DKU-5 data cable
5100, 6100, 6200, 6610, 6800, 7210, 7250, 7250i	DKU-5 data cable and IR
6310i, 6340/6340i, 6360	DLR-3P data cable and IR
6370, 6385	DLR-3P data cable, DKU-6 data cable, and IR
7160, 7190	DLR-3P data cable
8290, 8390, 8890	IR

Important: Nokia Content Copier does not support copying data *to* any of the phones listed above. Data can only be read *from* these phones, then copied to your Nokia phone (for example, Nokia 7250i).

Note: Nokia Content Copier does not support all Nokia phones. For more information on specific models of incompatible phones, see "Other phones" on page 9.

• UNDERSTAND CONTENT COPIER BASICS

Important: If the **Add New Hardware Wizard** launches when you establish an IR connection between your PC and one of the compatible phones listed in the table above, click the wizard **Cancel** button, then proceed to copy the phone data to your PC.

Important: If the **Add New Hardware Wizard** launches when you establish an IR connection between your PC and your Nokia 5100, 6100, 6200, 6610, 6800, 7210, 7250 or 7250i phone, close Content Copier, then proceed to "Wireless modem setup" on page 30 and follow the instructions. You can return to Content Copier once the modem setup has been completed.

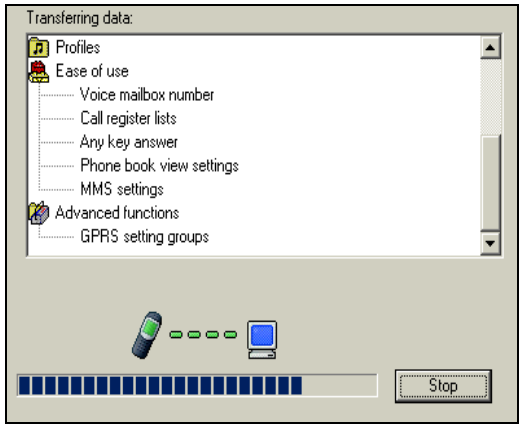
Use Content Copier

Nokia Content Copier uses a wizard-style interface to help you perform the tasks listed above. Launch Content Copier from the Start Menu (**Start** > **Programs** > **Nokia PC Suite 5** > **Nokia Content Copier**), then select the task you wish to perform. Follow the on-screen instructions to complete the selected task.

You may need to use Nokia Connection Manager to select the type of connection you want Content Copier to use during various stages of the process. For example, if you are trying to copy data from one phone to another and the phone containing the data you want to copy requires a data cable, click the Content Copier **Connection** button to launch Connection Manager. Then select the correct connection option for the source phone.

Copy data from the source phone

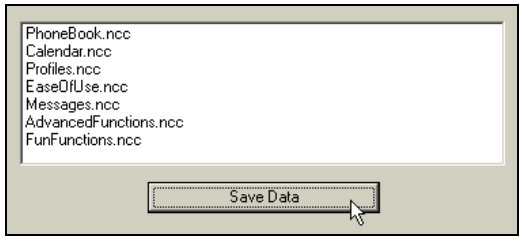
When you select **Copy data from a phone to a PC**, Content Copier transfers all compatible data types (contacts list, calendar, to-do, caller groups, etc.) from the phone containing the data you want to back up or transfer. This phone is called the "source phone" and can be one of the phones listed on the previous page, or another Nokia 5100, 6100, 6200, 6610, 6800, 7210, 7250 or 7250i phone.



- If you are copying phone data and want to save it on your PC, Nokia Content Copier guides you through the process of saving the information to your PC hard drive.
- If you are copying data from a different source to your Nokia phone, the data must first be saved to your PC. Once you have connected your Nokia 5100, 6100, 6200, 6610, 6800, 7210, 7250 or 7250i phone ("target" phone) using IR or cable, follow the instructions, "Copy information to the target phone."

Save the source phone data

Once the source phone data is read, save the information to your PC hard drive.

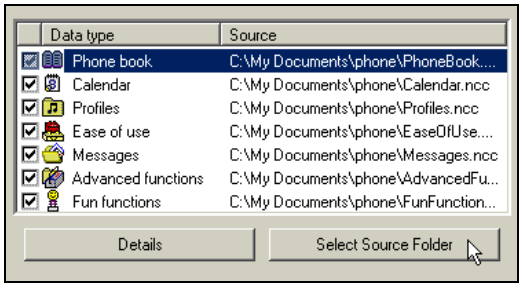


1. Click the **Save Data** button.
2. Navigate to the location on your hard drive where you want the information stored.

   Nokia Content Copier automatically names the files for you, based on the type of data that is read from the source phone.
3. Click **Next** to complete this process.
4. Click **New Action** to return to the beginning of the Content Copier wizard (to perform a different task), or click **Finish** to close Content Copier.

Copy information to the target phone

Before you can copy information to the target phone, you need to load the information into PC memory. You should have already saved the source phone data to your PC using the **Copy data from a phone to a PC** option.



1. Launch **Nokia Content Copier**, then click **Next**.
2. Click **Copy data from a PC to a phone**, then click **Next**.
3. Click the **Select Source Folder** button, then locate the directory containing the information you want to use.
4. Click **Next** to begin copying data from your PC to your phone.

Once the source phone information has been loaded from your PC hard drive, you are asked to determine the types of information you want copied into your phone. The compatible data types are displayed along with the ability to select the types of data you wish to transfer.

Use the check boxes next to the data types to select or deselect the information you want to copy to your phone. Click **Next** to begin copying the data to your phone.

IR connection time-out

If you are copying data from one phone to another using IR for both the source and destination phones, stop the IR connection between source phone and PC. Allow the Windows warning message regarding interrupted IR communications to time-out completely before aligning the target phone with the PC IR port. By doing so, you allow Connection Manager to detect your phone quicker.

Nokia Content Copier log

When you have successfully completed one of the Nokia Content Copier tasks, the **Finish** screen is displayed along with a log of the tasks that were just performed. At the **Finish** screen, you have the following options:

- Click **Save** to save the log (.LOG) file to your PC hard drive.
- Click **New Action** to return to the beginning of the Nokia Content Copier wizard.
- Click **Finish** to exit Nokia Content Copier.

• OTHER PHONES

Due to software and hardware differences between generations of phone technology, the following phones are *not* compatible with Nokia Content Copier:

Protocol	**Nokia model number**
TDMA	1220, 1260, 1261 2120, 2160, 2220, 2260 5120, 5125, 5160, 5165 6120/6120i, 6160/6160i/6160m 6161/6161i, 6162/6162i/6162m 8260, 8265
CDMA	3280, 3285 5170/5170i, 5180/5180i, 5185 6180/6180i, 6185/6185i 8270, 8280
GSM1900	3390, 3395, 3590 5190, 6190

5 Nokia Sound Converter

Nokia Sound Converter allows you to convert Standard MIDI files (**.mid**) for use with your Nokia phone. Nokia Sound Converter also supports several common ringing tone file formats (**.ott**, **.nrt**, and **.rtpl**). Once you convert and transfer these files to your phone you can use them with MMS (Multimedia Messaging Service) messaging and as ringing tones. Now you can carry a version of your favorite MIDI file as a ringing tone in your phone.

• LEARN ABOUT MIDI FILES

The new generation of Nokia phones are equipped with a polyphonic sound (MIDI) playback device (similar to your PC sound card). Your phone is capable of producing up to four different instrument sounds at the same time and makes use of a new type of MIDI ringing tone format.

Use SP MIDI files

SP (scalable polyphony) MIDI was designed for use in handheld devices to create more robust ringing tones and MMS melodies. The availability of SP MIDI ringing tones continues to increase as more mobile phones and handheld devices support this feature.

Many popular Internet ringing tone Web sites now offer SP MIDI ringing tones that you can download to your PC. You can use Nokia Sound Converter to upload new SP MIDI ringing tones to your Nokia phone.

Use Standard MIDI Files (SMF)

You can also use Nokia Sound Converter to modify and convert your favorite songs in Standard MIDI File (SMF) format for use with your phone. There are two types of SMFs:

- Type 0 SMF format—one track of MIDI data containing all the various instrument parts; each part is assigned to a different MIDI channel (1–16).
- Type 1 SMF format—each instrument has its own dedicated track and MIDI channel (1–16).

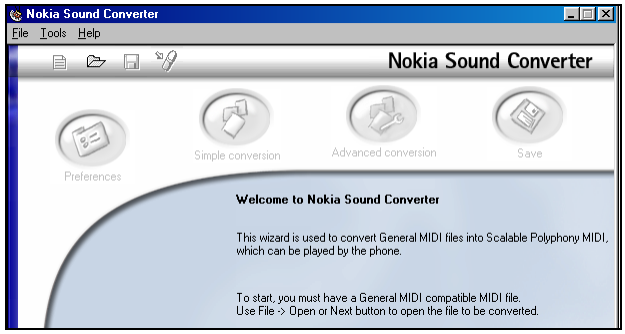
Nokia Sound Converter supports Type 1 files. These Type 1 files are often called General MIDI (GM) files by those manufacturing audio devices for home use or for hobbyists (as opposed to devices designed for professional audio applications such as recording studios, etc.). GM files use the Type 1 format because the composer of the SMF can designate a particular instrument or sound and embed this information in the SMF.

Since many SMFs contain more voices and instruments than your phone can accommodate, Nokia Sound Converter is designed to help you optimize these files for use with your phone.

• LEARN ABOUT NOKIA SOUND CONVERTER

Nokia Sound Converter is designed primarily for the conversion of SMFs or GM files to SP MIDI files. The main Sound Converter tasks include:

- Opening the desired MIDI file.
- Setting the priority of the MIDI channels (instruments) to be played.
- Adjusting the number of notes used per channel (polyphony).
- Saving the modified MIDI file to your PC.
- Uploading the ringing tone to your phone.


Nokia Sound Converter
File Tools Help
Nokia Sound Converter
Preferences
Simple conversion
Advanced conversion
Save
Welcome to Nokia Sound Converter
This wizard is used to convert General MIDI files into Scalable Polyphony MIDI, which can be played by the phone.
To start, you must have a General MIDI compatible MIDI file.
Use File -> Open or Next button to open the file to be converted.

Understand terms and concepts

The following explanations may prove helpful as you optimize your favorite MIDI files for use with your Nokia phone.

The following explanations may prove helpful as you optimize your favorite MIDI files for use with your Nokia phone:

- **Channels**—Each MIDI instrument (bass, piano, guitar, brass, etc.) is assigned a different MIDI channel (1–16). Note that your MIDI file may contain several channels of the same type of instrument (for example, **Brass 1**, **Brass 2**, **Brass 3**, etc.). You may need to listen to each channel or instrument to determine which channel you want to use.
- **Polyphony**—the number of simultaneous notes that your phone MIDI playback device can play (or the number of simultaneous notes per channel required by the GM file). You may need to lower the polyphony value of a channel in order to be able to use more channels/instruments in your ringing tone.

Nokia Sound Converter allows you to optimize your favorite MIDI file by adjusting the priority of the channels (instruments) and adjusting the polyphony value for the desired instrument.

Open a GM file

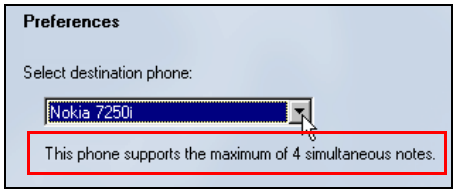
To open a GM file for conversion to SP MIDI:

1 Establish a connection between your phone and PC.

2 Launch Nokia PC Sync (click **Start**, point to **Programs**, point to **Nokia PC Suite 5**, then click **Nokia Sound Converter**), then click **Next**.

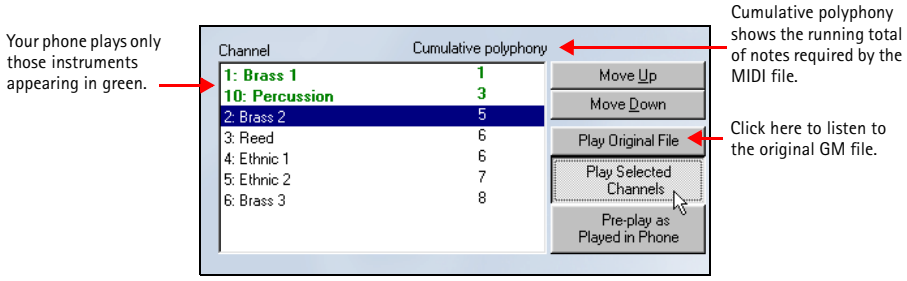
3 Use the dialog box to highlight the MIDI file you want to convert, then click **Open**.

4 Confirm that your phone appears as the selected destination, and note the number of simultaneous notes and/or instruments your phone can support.



5 Click **Next**.

Nokia Sound Converter analyzes your GM file and moves what it determines as the most important instruments to the top of the priority list.


Your phone plays only those instruments appearing in green.
Channel
Cumulative polyphony
1: Brass 1 1
10: Percussion 3
2: Brass 2 5
3: Reed 6
4: Ethnic 1 6
5: Ethnic 2 7
6: Brass 3 8
Move Up
Move Down
Play Original File
Play Selected Channels
Pre-play as Played in Phone
Cumulative polyphony shows the running total of notes required by the MIDI file.
Click here to listen to the original GM file.

Note that some instruments require more polyphony than others. In the GM priority list example, **Brass 1** requires one note, whereas **Percussion** requires the ability to play two notes simultaneously. Since your phone supports up to four notes simultaneously, the use of **Brass 1** and **Percussion** gives you a cumulative polyphony of three notes total. Note that **Brass 2** requires two notes and causes this MIDI file to exceed your phone playback capabilities. While you still have one additional note available, the remaining instruments in the list cannot be played by your phone

Use Simple channel priority options

If you analyze the cumulative polyphony of the remainder of the instruments, you may discover that some voices require less polyphony than others. In the example above, **Reed**, **Ethnic 1**, **Ethnic 2**, and **Brass 3** only require one note each. You may want to use one or more of the following options to select other instruments for use in your ringing tone.

LISTEN TO A MIDI CHANNEL

You can listen to one or more of the MIDI channels to determine if you want to use instruments other than those selected by Sound Converter. Highlight the desired MIDI channel (or hold the **Ctrl** key to select more than one), then click **Play Selected Channels**.

CHANGE CHANNEL PRIORITY

Use the **Move Up** or **Move Down** buttons to change the priority of a channel. In the GM priority list example, you may consider moving one or more of the channels higher that requires only one note of polyphony (for example, **Reed** or **Ethnic 1**). The end result is having a wider variety of instrument sounds in your MIDI ringing tone.

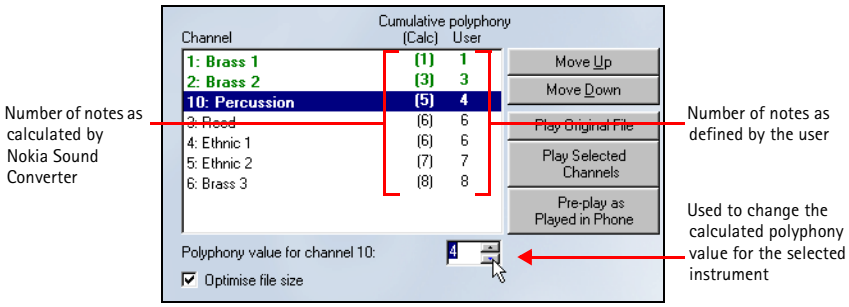
LISTEN TO YOUR MIDI FILE

You can simulate playback of the MIDI file by your phone while you are editing. Click the **Pre-play as Played in Phone** button at any time to hear how the changes you make to the channel priority affect what you hear.

Use Advanced channel priority options

One method of increasing the number of different channels (instrument sounds) available to you at a given time is to adjust the calculated polyphony value for a channel. However, to do this you must select the **Advanced** option. Click the **Advanced conversion** button to access the additional conversion options or click the **Back** button and select **Advanced**).

In the previous example, the **Brass 2** channel contains the main melody of the MIDI file. The **Brass 1** channel contains the bass part (in this case, played by a tuba sound).


Number of notes as calculated by Nokia Sound Converter
Channel
Cumulative polyphony
(Calc) User
1: Brass 1 (1) 1
2: Brass 2 (3) 3
10: Percussion (5) 4
3: Reed (6) 6
4: Ethnic 1 (6) 6
5: Ethnic 2 (7) 7
6: Brass 3 (8) 8
Move Up
Move Down
Play Original File
Play Selected Channels
Pre-play as Played in Phone
Polyphony value for channel 10:
4
Optimise file size
Number of notes as defined by the user
Used to change the calculated polyphony value for the selected instrument

Moving the **Brass 2** channel above the **Percussion** channel sets **Percussion** to a lower priority. Reducing the polyphony of the **Percussion** channel by one voice brings the cumulative polyphony of the first three channels to four.

In effect, you have adjusted or scaled the polyphony of your MIDI file to work more effectively with your phone, hence the term *scalable polyphony*. Your phone is now able to play the first three instrument sounds simultaneously.

Save your SP MIDI file

Once you have made the necessary adjustments to the GM file, you should save your work. From either the **Simple conversion** or **Advanced conversion** screens:

1 Click **Next**.

2 Click the **Save File** button. Use the **Save As** dialog box to save your file with a different file name.

Note that SP MIDI files and GM files use the same file extension (**.mid**). You may want to choose a new file name so as to distinguish the SP MIDI file from the original GM source file.

Transfer to phone

When you transfer the SP MIDI file to your phone, the phone stores the file in the **Gallery** menu. Once you recall the file from the **Gallery** menu, you can assign it as a ringing tone to the currently selected file or attach it to an MMS message. For more information on these features, refer to the phone user guide.

1 From the **Save** dialog, click the **Update to phone** button.

2 Make any changes to the MIDI file title using the **Update As** dialog box, then click **OK**.

3 Click **Finish** to return to the beginning of the **Nokia Sound Converter** wizard, or click the close button to exit the application.

6 Nokia PC Sync

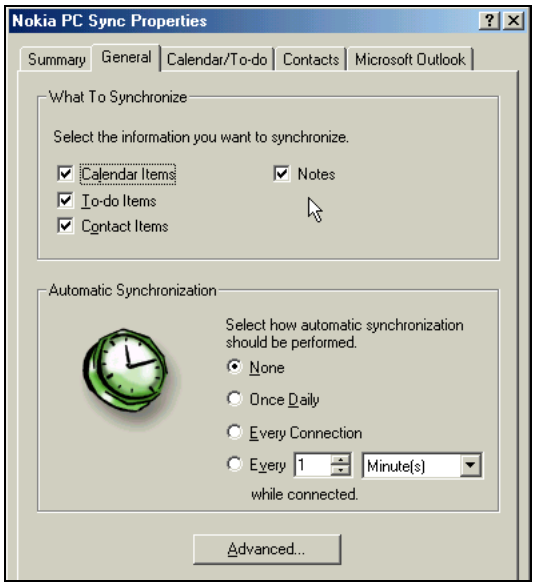
Nokia PC Suite allows you to synchronize the contact and calendar information in your PC Personal Information Manager (PIM) software and your Nokia mobile phone. You can use Nokia PC Sync to keep information up to date in both locations.

PC Sync supports a variety of PIM applications, including Microsoft Outlook, Outlook Express (using Windows Address Book), and Lotus Organizer. PC Sync also offers a wide variety of synchronization options so that you can personalize the way you want your information managed.

Warning: To avoid any potential loss of data, you should not make or receive calls while synchronizing data between the phone and your PC. Nokia PC Sync cannot be used while a data call is in progress. Likewise, you cannot initiate a data call while synchronizing data with PC Sync.

Important: Remember to make backup copies of all important data to protect against possible loss or alteration.

• CONFIGURE PC SYNC



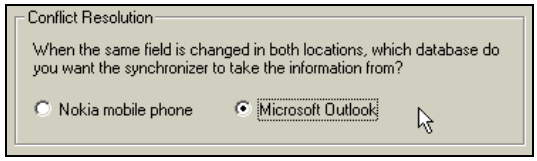
The first time you run Nokia PC Sync, you must configure PC Sync to work with your PIM application. Once you have customized PC Sync, you can proceed with synchronizing your PIM data with your phone.

1. Establish a connection between your phone and PC using IR or cable.
2. Launch Nokia PC Sync by clicking **Start**, point to **Programs**, point to **Nokia PC Suite 5**, then click **Nokia PC Sync**.
3. Select your PIM application from the drop-down list, then click **OK**.
4. Click the **More** button to view a summary of current or default settings.

Set General synchronization properties

1. Click the **General** tab, then select the information you want to synchronize.
2. Click the desired **Automatic Synchronization** option (for example, **Every connection**).
3. Click the **Advanced** button to specify additional options, including resolving synchronization conflicts.

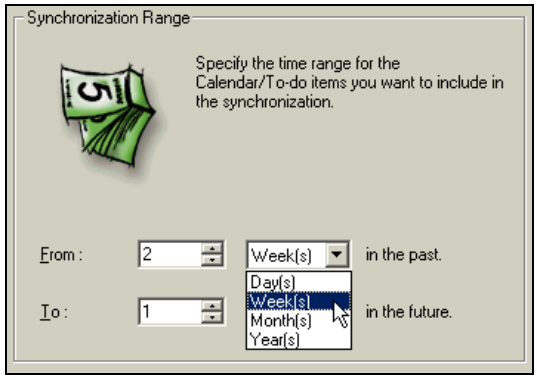
Synchronization conflicts


Conflict Resolution
When the same field is changed in both locations, which database do you want the synchronizer to take the information from?
Nokia mobile phone
Microsoft Outlook

A synchronization conflict occurs when you change or edit a contact, calendar, or to-do list note in both your phone and PIM between synchronization sessions. By default, PC Sync resolves the conflict by treating your phone as the correct information source.

To change conflict resolution properties, click the option associated with your PIM application.

Set Calendar and Contacts properties



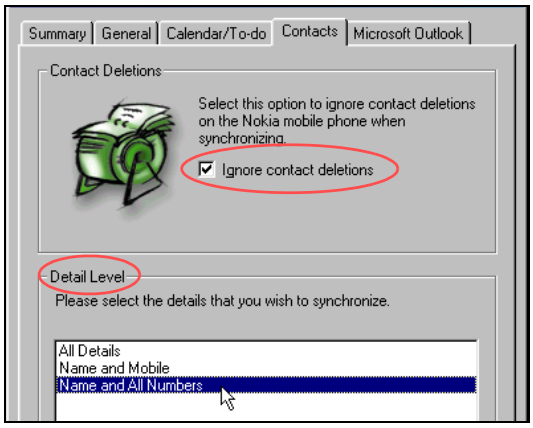
Your PIM application storage capabilities are much more extensive than those of your phone. Use the **Calendar/To-do** and **Contacts** tabs to define the kinds and amount of information synchronized.

For more information about the capacity of the contacts list, calendar, and to-do list of your phone, refer to the technical specifications section of the handset user guide.

1. Click the **Calendar/To-do** tab.
2. Use the drop-down lists to define the range of time PC Sync uses during synchronization.

3 Click the **Contacts** tab.

4 Select the details you want synchronized with your phone.



Contact deletions

By default, contacts deleted from your phone are not deleted from your PIM when you synchronize. If you accidentally delete a contact from your phone, you can restore it by synchronizing again.

Deselecting the **Ignore contact deletions** option instructs PC Sync to permanently delete the corresponding contact in your PIM. Choose this option *only* when you are certain you want PC Sync to delete the PIM contact (and all details) associated with the deleted contacts list entry.

Deleting contacts list entries cannot be undone!

Set PIM properties

The last properties tab is labeled with the name of your PIM application. Use this properties tab to modify how PC Sync communicates with your PIM resources. For example, if your PC is configured for multiple users, the default location of the database with your information may be stored in a user profile directory instead of the default location for a single-user PC. PC Sync returns an error message if it cannot find your PIM data.

Use the PIM properties tab to select the correct location of your PIM databases containing current contacts, calendar, and to-do list information.

Synchronizing for the first time

Once you have customized PC Sync for your uses, you are ready to synchronize your phone and PIM.

1 Click the **Summary** tab.

2 Click the **Synchronize Now** button.

3 Observe the synchronization status indicator.

4 Click the **OK** button when synchronization is complete.

Important: Please refer to the *Troubleshooting* document in the event synchronization is not successful or if PC Suite notifies you of errors. A link to this document can be found in the Nokia PC Suite 5 Program Group.

• UNDERSTAND THE BASICS OF SYNCHRONIZATION

Important: Synchronization occurs between numbers in your PIM application and contacts list memory only. Numbers stored on the SIM card are not synchronized with your PIM application.

Nokia PC Sync remains running in the background after you synchronize for the first time. PC Sync places an icon in the task bar tray to indicate that the application is running. The colors of the icon change, depending on the status of the IR connection between your phone and PC, as shown in this example:

10:31 AM
Blue and green indicates a connection is present between your phone and PC.
10:51 AM
Yellow and gray indicates no connection is present between your phone and PC.

Exit PC Sync

Once you have completed setup and have synchronized for the first time, you can either leave the program running in the background, or exit PC Sync. To exit PC Sync, right-click the PC Sync tray icon , then click **Exit**.

Start PC Sync

You have two options for launching Nokia PC Sync:

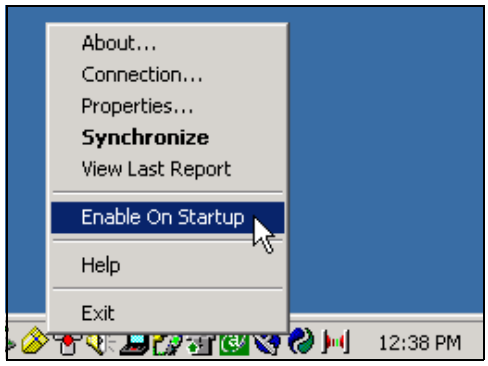
- As-needed from the Windows Start menu.
- Automatically upon startup.

TO ENABLE PC SYNC ON STARTUP

1 Establish a connection between your phone and PC.

2 Launch PC Sync from the **Start** menu.

3 Right-click the PC Sync tray icon, then click **Enable On Startup**



View other PC Sync options

There are several other options available from the PC Sync options menu (from the tray icon). With the phone connected to your PC, right-click on the tray icon, then click any of the following options:

- **About**—used to view information about the PC Sync program
- **Connection**—used to check the status of the PC/phone connection
- **Properties**—use to modify current PC Sync settings (change frequency of synchronization, types of data synchronized, etc.)
- **Synchronize**—used to begin data synchronization
- **View Last Report**—used to view information about the last synchronization attempt
- **Help**—used to launch the on-line Help files
- **Exit**—used to close the PC Sync program

To disable the auto start features, right-click on the **PC Sync** icon, then click **Enable On Startup** again.

6

• BEGIN SYNCHRONIZATION

If you select the **Every connection** option from the **General** synchronization properties tab, PC Sync initiates synchronization when you start the program from the **Start** menu. Otherwise, to synchronize your data while the program is running, right-click the PC Sync tray icon, then click **Synchronize**.

SYNCHRONIZE USING THE NOKIA DCV-14

You can also initiate synchronization when your phone is connected to the Nokia DCV-14 Connectivity Desk Stand. With the PC Sync program already running, press the synchronization button on the front of the stand.

For more information on the Nokia DCV-14 Connectivity Desk Stand, refer to the Enhancements chapter, located in the user guide for your phone.

• USE THE NEW SYNCHRONIZATION COMMAND

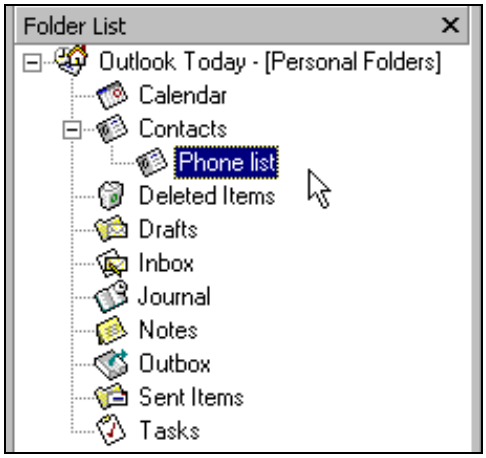
If you upgrade to a newer version or change PIM applications, you must configure PC Sync to work with the new application. Select **New Synchronization** from the Nokia PC Suite program group, then follow the instructions, "Configure PC Sync" on page 13.

Important: **New Synchronization** is not the command to use when you want to start PC Sync and initiate synchronization between your phone and PC.

• CREATE A CUSTOM CONTACT LIST

If you have more contacts in your PIM than your contacts list can hold, synchronizing may overload your phone memory.

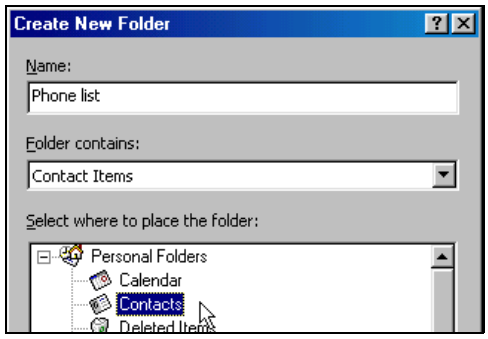
Nokia suggests you create a custom contact list or subset of your master contact list containing only the information you want in your phone. Depending on the PIM application you use, you may need to create a new contact database file or create a new folder to store the custom contact list.



Configure for Outlook users

Outlook users can create folders and subfolders in their Outlook database files. To create a custom contact list, first create a new folder to store contacts. Then copy the desired contact information from your main contacts folder to the new folder. PC Sync allows you to synchronize your phone with the Outlook contacts folder of your choosing.

CREATE A NEW FOLDER FOR PHONE CONTACTS



1 Click **File**, point to **Folder**, then click **New Folder**.

2 Type the name of your new folder (for example, **Phone list**).

3 Click the **Folder contains** drop-down arrow, then click **Contact Items**.

4 Select a location for your new folder (for example, click **Contacts** to make **Phone list** a subfolder of the **Contacts** folder).

5 Click **OK** to confirm your selection.

COPY CONTACTS TO CUSTOM PHONE LIST

1 Click the **Contacts** button on your Outlook bar

.

2 Select the contacts you want to appear in your custom list.

Hold the **Shift** key, then click to select multiple contacts adjacent to each other.
Hold the **Ctrl** key, then click to select multiple contacts that are not adjacent to each other.

3 Click **Edit**, then click **Copy**.

You can also press **Ctrl** + **C**.

4 Select your custom folder from the **Folder List** (for example, **Phone list**).

Or press **Ctrl** + **Y** to display **Go to Folder** dialog box, then select your custom folder.

5 Click **Edit**, then click **Paste**.to place copies of the selected contacts into the new folder.

You can also press **Ctrl** + **V** to paste.

Important: If you decide to drag-and-drop contacts between the **Contacts** folder and the new custom folder, you must hold the **Ctrl** key while dragging, then release the mouse button first. Holding the **Ctrl** key during drag-and-drop allows you to make a copy of all selected contacts in the new folder.

UPDATE OUTLOOK SETTINGS IN PC SYNC

To update PC Sync settings to synchronize with your custom list:

1 Establish a connection between your phone and PC.

2 Launch Nokia PC Sync from your PC **Start** menu.

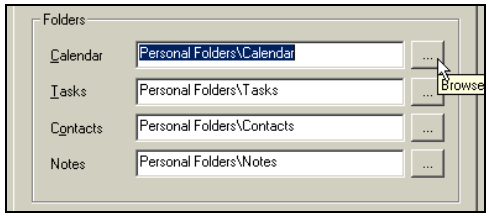
3 Right-click the PC Sync tray icon, then click **Properties**.

4 Click the **Microsoft Outlook** tab.

5 Click the **Contacts** browse button ... , then select your custom folder.

6 Click **OK** to confirm your selection.

7 Click the **Summary** tab, then click **Synchronize Now** to synchronize your phone and custom phone list.



Configure for other PIM applications

Some PIM applications (such as Lotus Organizer) require a new database file for your custom contacts list. Once you create a new database file, copy the desired contact information from your main database to the new contacts database file. Use the PC Sync settings to choose the database file containing only the information you want to use in your phone.

CREATE A NEW LOTUS ORGANIZER DATABASE FILE

1 With Lotus Organizer running, click **File**, then click **New**.

2 Click **File**, then click **Save As**.

3 Enter a name for your custom phone list (for example, **Phone list**).

COPY CONTACTS TO CUSTOM PHONE LIST

1 From the Lotus **File Manager**, open your default Organizer database (c:\lotus\work\organize\<filename>).

2 Click the **Contacts** tab, then click the desired alphabet tab.

3 Select the desired contacts for your custom list.

Hold the **Shift** key, then click to select multiple contacts adjacent to each other.
Hold the **Ctrl** key, then click to select multiple contacts that are not adjacent to each other.

4 Continue by clicking subsequent alphabet tabs and selecting the desired contacts.

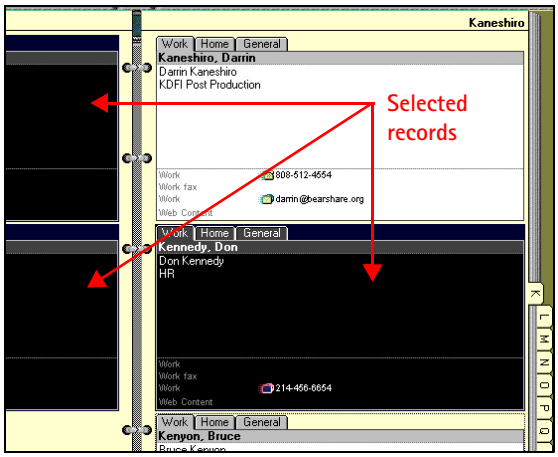
5 Click the **Copy** button.

You can also press **Ctrl** + **C**.

6 Use the Windows **Task Bar** to switch back to your new contacts list, then click the **Contacts** tab.

7 Click the **Paste** button to paste copies of the selected contacts into the new list.

You can also press **Ctrl** + **V** to place copies of the selected contacts into the new list.



UPDATE LOTUS ORGANIZER SETTINGS IN PC SYNC

1 Establish a connection between your phone and PC.

2 Launch **Nokia PC Sync** from the **Start** menu.

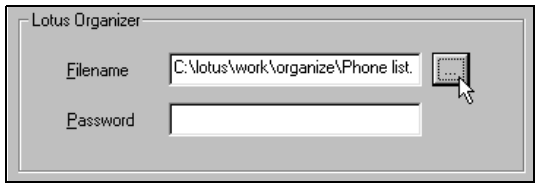
3 Right-click the PC Sync tray icon, then click **Properties**.

4 Click the **Lotus Organizer** tab.

5 Click the **Contacts** browse button ..., then select your custom folder.

6 Click **OK** to confirm your selection.

7 Click the **Summary** tab, then click **Synchronize Now** to synchronize your phone and custom phone list.



7 Nokia Image Converter

Nokia Image Converter allows you to edit and enhance graphic images for use in your phone. While Nokia Image Converter provides a wizard-style interface to help you perform the various tasks, you can also use the various menus and the toolbar to select the desired function.

You can use Nokia Image Converter to create the following types of images:

- **Wallpaper**—used to create and upload background images for the Start screen (when your phone is at idle state)
- **MMS**—used to create and upload images optimized for use with MMS messages

Once you select the type of image you want to work with, Nokia Image Converter provides several image editing, special effects, and image enhancement options. Nokia Image Converter supports some of the most popular graphics formats including Windows Bitmap (**.bmp**), CompuServe Graphic Interchange Format (**.gif**), JPEG/Joint Photographic Experts Group (**.jpg**), and Portable Network Graphics (**.png**).

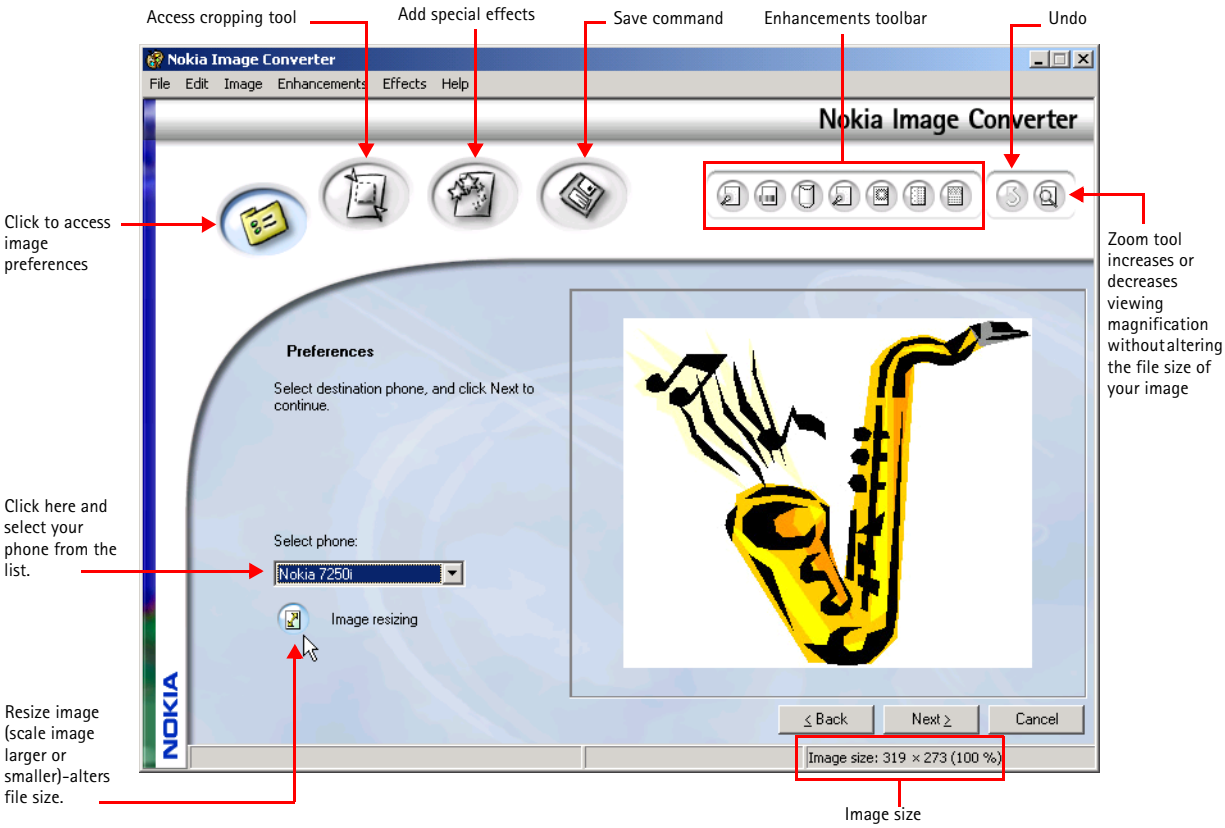
• BEGIN CONVERTING AN IMAGE

Before you begin using Nokia Image Converter, establish a connection between your phone and PC (IR or cable).

1. Launch Nokia Image Converter (click **Start**, point to **Programs**, point to **Nokia PC Suite 5**, then click **Nokia Image Converter**).
2. Click **Open New Image**.
3. Select the image you want to convert, then click **Open**.
4. Click **Next** and proceed to the **Preferences** screen.

Tour Nokia Image Converter

The illustration below introduces you to the tools and commands:


Access cropping tool
Add special effects
Save command
Enhancements toolbar
Undo
Nokia Image Converter
File Edit Image Enhancements Effects Help
Nokia Image Converter
Click to access image preferences
Zoom tool increases or decreases viewing magnification without altering the file size of your image
Preferences
Select destination phone, and click Next to continue.
Click here and select your phone from the list.
Select phone:
Nokia 7250i
Image resizing
Resize image (scale image larger or smaller)-alters file size.
NOKIA
< Back
Next >
Cancel
Image size: 319 × 273 (100 %)
Image size

Explore image options

The **Preferences** screen is used to select which Nokia phone you wish to use with the current image, as well as resize the image prior to any additional edits.

1 Click the **Select phone** drop-down arrow, then select the model of your Nokia phone from the list.

2 Click **Image resizing** (optional), then drag the slider to resize your image.

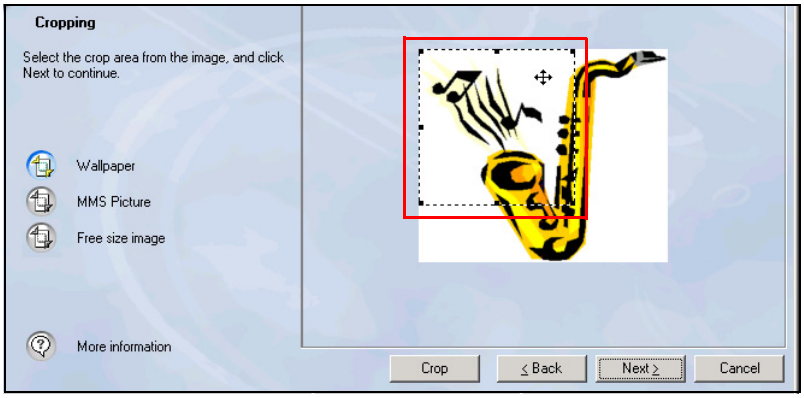
3 Click **OK** to confirm the new image size.

4 Click **Next** to continue.

CROPPING

Images used for MMS messages or wallpaper must conform to a certain width and height ratio. Use the **Cropping** option to capture the portion of the image you want to use.

1 Click the button associated with the type of picture you are trying to create (for example, **Wallpaper**).



2 Use your mouse to drag the highlighted area over the portion of the image you want to use.

Note: If you select **Free size image**, click and hold your mouse button, then drag to highlight the portion of the image you want to use.

3 Use the adjustment handles on the corners (or on the sides) of the highlighted area to adjust the size of the area you want to crop.

4 Click the **Crop** button to complete the process (or double-click anywhere inside the highlighted area).

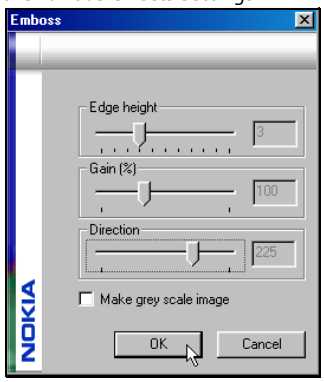
5 Click **Next**.

EFFECTS

Nokia Image Converter offers you several special effects similar to those found in industry standard imaging software programs. Each effect has its own set of optional settings you can use to customize how the effect is applied to your image. For example, use the **Emboss** effect to add 3-D effects to your image.

1 Click the desired effect (for example, **Emboss**).

2 Use the **Emboss** options screen to adjust the various effects settings.



3 Click **OK** to apply your changes.

4 Click the **Undo** button if you want to modify the effect settings or if you decide to select a different effect.

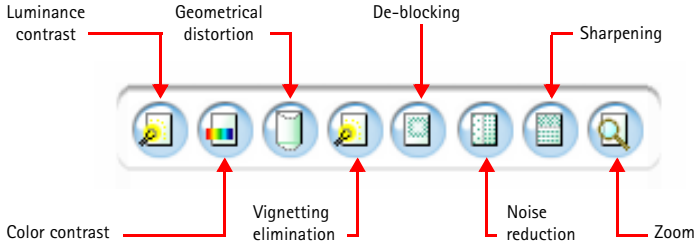
You can also select the **Undo** command from the **Edit** menu

Tip: For more specific information on the available effects, refer to the online help files for Nokia Image Converter (**Definitions** > **Effects menu**).

ENHANCEMENTS

In addition to the special effects, Nokia Image Converter offers an additional set of tools you can use to further enhance your image. There are no adjustments you can make to modify the selected enhancement, and you can only turn them on or off. However, you can apply several of the enhancements simultaneously.

Use the **Enhancements** toolbar to turn these features on or off. You can also select the desired enhancements from the **Enhancements** menu.



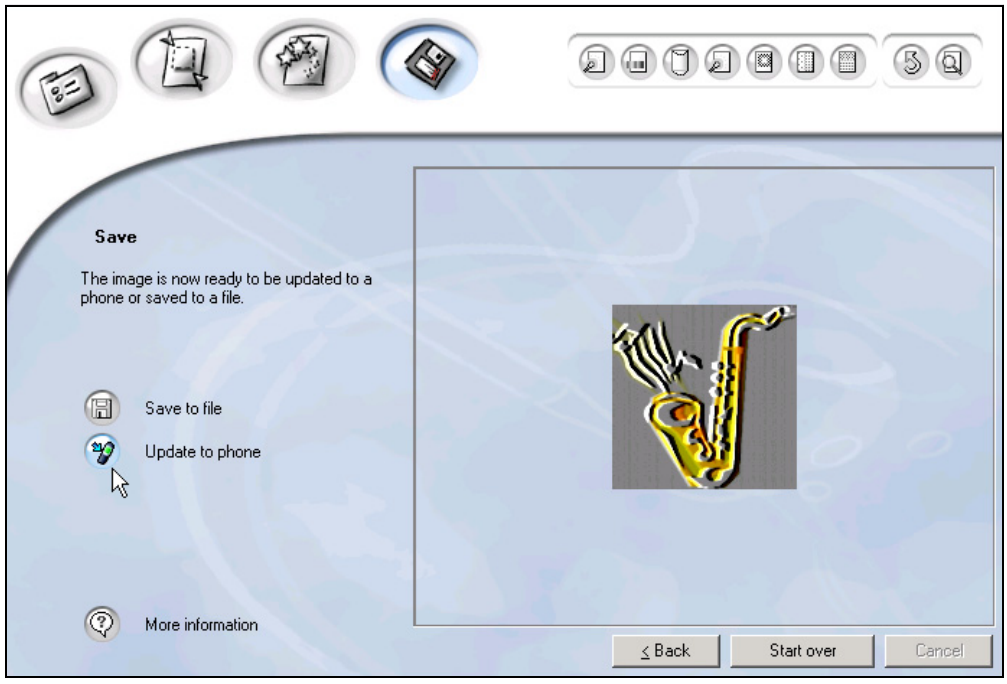
Tip: For more specific information on the available effects, refer to the online help files for Nokia Image Converter (**Definitions – Enhancements menu**).

When you are finished editing your image, click **Next** and proceed to the final steps for converting your image.

Save your work

The final steps to convert your image are as follows:

- Save your work to disk.
- Transfer the image to your phone.



To complete the process:

1 Click the **Save to file** button, then enter a name for your converted image.

You can also select the **Save** command from the **File** menu.

2 Select the desired file type (for example, **.jpg**) from the **Save as type** drop-down list, then click **Save**.

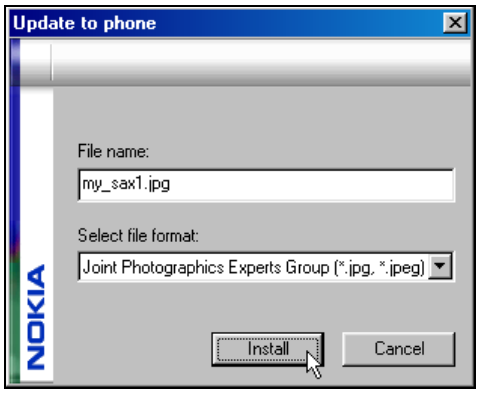
Note: Nokia recommends you save MMS and wallpaper images as JPEG (**.jpg**) files. When saving JPEG files, Nokia Image Converter prompts you to select an image quality before saving the image to your PC.

Important: Selecting a better picture quality increases the file size of your image and may affect how many images you can transfer to your phone. For more information on the storage capacity of your phone, refer to your phone user guide.

3 Click **Update to phone**.

You can also select **Update to phone** from the **File** menu.

4 Modify the file name (if desired) and confirm JPEG as the file type, then click **OK**.



5 Confirm the file size settings you specified when you saved your file, then click **OK**.

6 Click **OK** to accept the confirmation message indicating that the file transfer was successful.

Your new image can be found in the **Images** folder, located in the **Gallery** menu of your phone. For more information on how to use your new image for MMS messages or wallpaper, refer to your phone user guide.

If you want to work with more images, click **Start over** to return to the first screen. Click **File**, then click **Exit** to close this program.

8 Nokia Application Installer

Nokia Application Installer allows you to upload and install Java applications from your PC or laptop computer to your phone. When you install compatible J2ME applications to your phone, you add new functionality to your phone. This may include (for example):

- New games
- Stock portfolio manager
- World clock
- Currency converter

You can use Nokia Application Installer to install applications you download to your PC from the Internet (including those downloaded from your service provider's Web site). Or you can also install applications that you program yourself with the appropriate Java software developer toolkit.

Important: Only download and install software from sources you trust. Please take the necessary precautions to protect against viruses and other harmful software. Nokia Application Installer uses digital signatures and certificates during software installation. Do not install an application if Nokia Application Installer displays a security warning about the software you are trying to install.

• ABOUT JAVA APPLICATIONS

Java applications consist of two files and can be identified by the **.jad** and **.jar** file extensions. When you download Java applications to your PC for use with your phone, make sure you save both files to the same location. If Nokia Application Installer cannot find the .jar file, a dialog box opens and prompts you for the location of the file.

• INSTALL AN APPLICATION

1. Establish a connection between your phone and PC (IR or cable).
2. Launch **Nokia Application Installer**.
3. Click the **Install** button , or select **Install** from the **File** menu.
4. Locate and select the **.jad** file saved on your PC, then click **Install**.

   Observe the progress indicator as the application is installed.
5. Click **OK** to complete the installation process.

• ERASE AN APPLICATION

Your phone has a limited amount of memory for Java applications. For example, you may need to erase old or unused Java applications to make memory available for new applications. To erase an existing Java application:

1. Press **Menu 1–0–1** (**Applications** > **Select app.**).
2. Scroll to highlight the application you wish to erase, then press **Options**.
3. Scroll to **Erase**, then press **Select**.
4. Press **OK** to complete the process.

Note: Please refer to your phone user guide for more information on phone memory architecture and memory sharing feature.

• LEARN ABOUT MULTIPLE PHONES

If you have multiple compatible phones connected to your PC (using both IR and cable connections simultaneously), make sure you select the correct phone when installing your new application. Click the **Select phone** button on the toolbar, then choose the correct phone from the list.

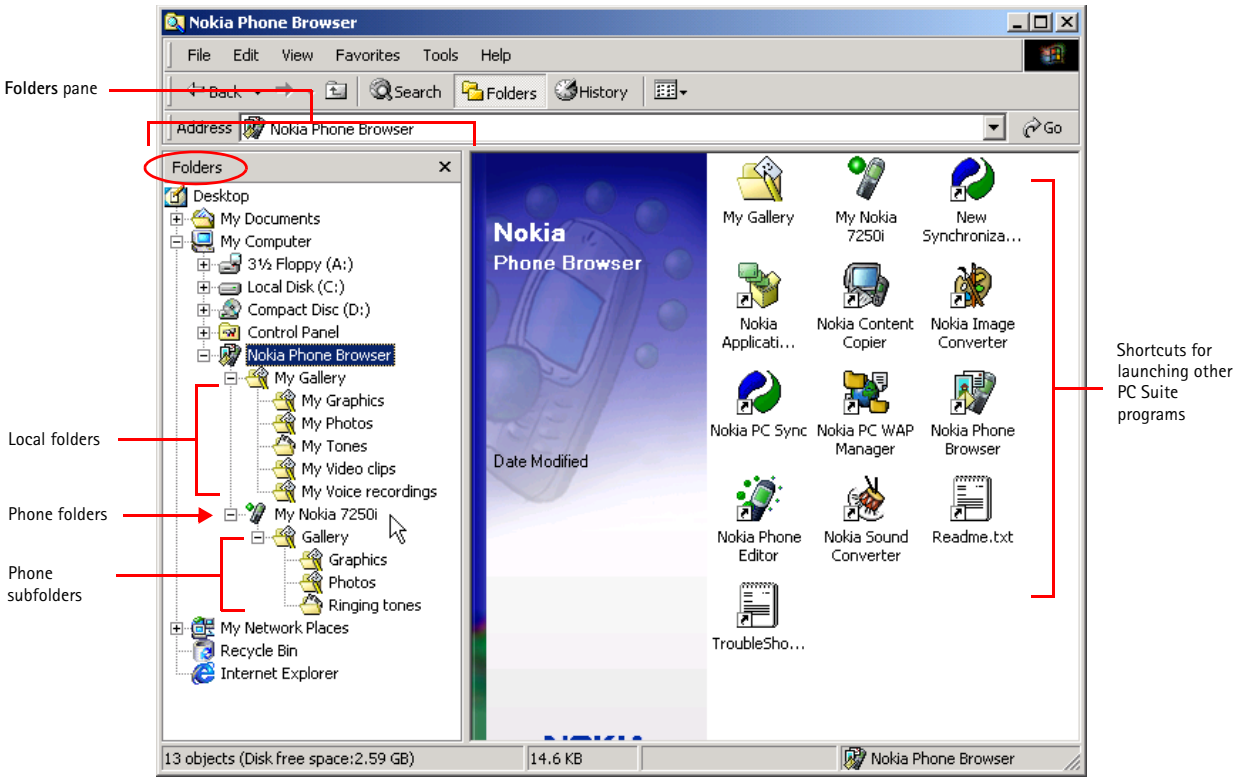
9 Nokia Phone Browser

Nokia Phone Browser is an application that allows you to brows the contents of your phone using either Windows Explorer or My Computer. You can use Phone Browser to:

- Upload multimedia files (images, MIDI files) to your phone
- Copy or backup multimedia files to your PC
- Delete old or unwanted multimedia files stored in your phone
- Create, rename, or delete folders inside the Gallery folder
- Use your PC to organize the multimedia files stored in your phone
- Use the Nokia Phone Browser icons to launch other Nokia PC Suite applications

• TOUR NOKIA PHONE BROWSER

The illustration below introduces you to the Phone Browser interface:



• LEARN ABOUT FOLDERS

Phone Browser allows you to use familiar Windows Explorer file management techniques to move files between your PC and phone. For your convenience, Phone Browser automatically installs a collection of folders on your PC so you can organize the various types of files in your phone.

Local folders

My Gallery is the name given to the main local folder on your PC. Phone Browser also creates several subfolders to store some of the most popular types of phone data. You use the Windows Explorer **File** menu to create additional subfolders as well as rename files and folders.

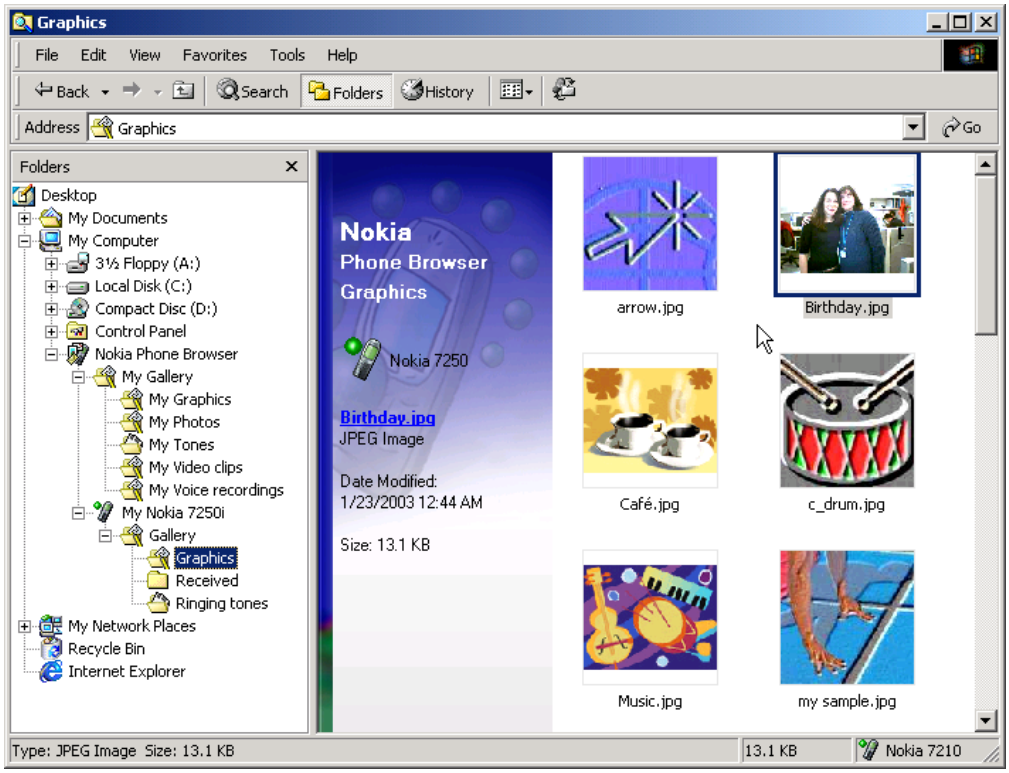
Phone folder

When your phone and PC are connected, a phone folder is created automatically. The name of your phone folder is the same as the familiar name you gave your phone the first time it was connected. See "Assign a familiar name" on page 4 for more information.

Phone subfolders

You can click the **+** next to your phone folder to expand the view and display the **Gallery** folder in your phone. You can click the **+** next to the **Gallery** folder to expand the view and display all of the subfolders currently available in the **Gallery**. You can use Phone Browser to create new subfolders inside the Gallery; however, you cannot rename the default folders already in your phone.

To view the contents of a **Gallery** subfolder, click the desired folder in the Windows Explorer **Folders** list. The contents of the folder you select are displayed in the pane to the right of the **Folders** list. If you want to preview images in a folder, click the **View** button on the Windows Explorer toolbar, then click **Thumbnails**.



Copy files between phone and PC

Phone Browser treats your phone as if it were just another storage device (hard disk, floppy disk, etc.) attached to your PC. To copy files from your phone to your PC using Windows Explorer:

1 Make sure both the subfolder containing your files and the destination folder are visible in the Windows Explorer **Folders** list.

1 Select the subfolder containing the files you want to copy from the **Folders** list.

2 Select the files you want to copy in the pane to the right of the **Folders** list.

3 Click **Edit**, then click **Copy** to copy the files.

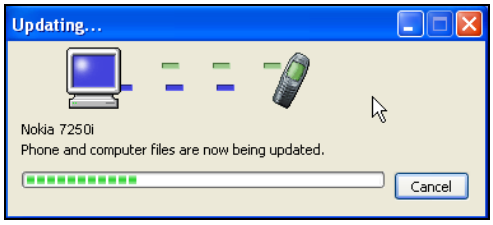
4 Select the destination subfolder for your files.

5 Click **Edit**, then click **Paste** to move a copy of the files to the destination folder.

You can also use the drag-and-drop technique to copy files from one location to another. For more information on file management, consult the Windows Help system on your PC.

Use Update

When you select one of the subfolders in your phone from the **Folders** pane, the **Update** button is added to the Windows Explorer toolbar. Click the **Update** button to synchronize the data in the Phone Browser subfolders with the actual subfolders in your phone.



For example, if you use Phone Browser to copy an image into the **Images** folder on your PC, but the image does not appear in your phone, click the **Update** button. Phone Browser updates the information in both the phone and PC.

10 Nokia Phone Editor

The Nokia Phone Editor program allows you to edit and manage many phone functions from your PC. Phone Editor consists of the following components:

- **Contacts**—is used to manage contacts list entries in your SIM card and in the phone memory. Also used to store contact information on your PC.
- **Messages**—is used to read, write, send, and organize your SMS messages from your PC. Also used to store and organize SMS messages on your PC.
- **Settings**—is used to view and modify various system and message settings and store or configure your personal business card information.

Make sure you establish a connection between your phone and PC before using Phone Editor. If your phone is not connected to your PC, you cannot edit and manage the information and settings.

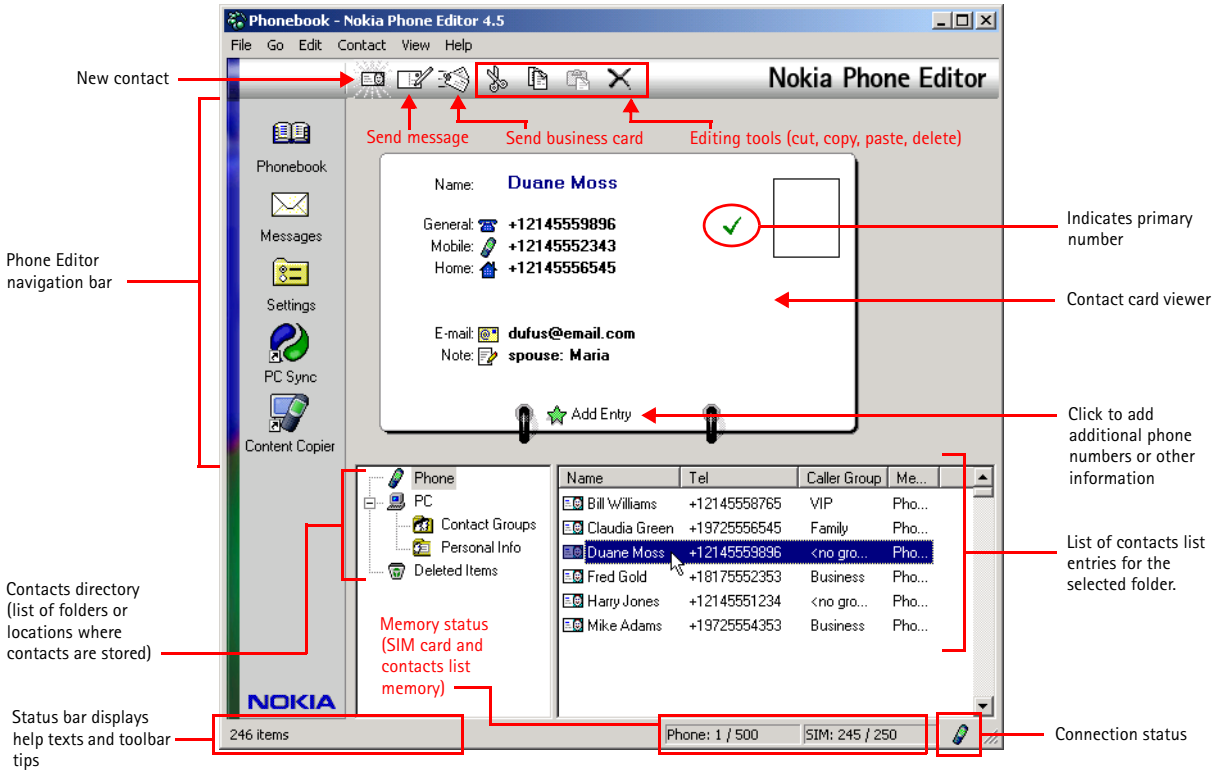
Important: Phone Editor cannot be used during active digital data or fax calls. Do not try to use these features simultaneously.

• PHONE MEMORY AND PC STORAGE LOCATIONS

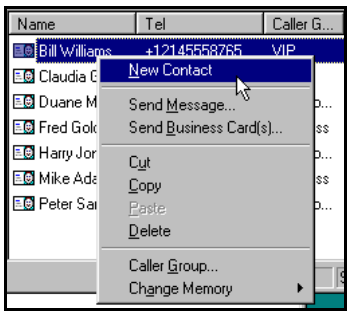
Phone Editor uses three different storage locations for your data and settings: phone memory, SIM card memory, and your PC (RAM memory and hard drive storage).

Each time you launch Phone Editor, phone numbers, text messages, and various phone settings (in both phone and SIM card) are read into Phone Editor memory. When you terminate the connection or exit the program, the phone information is stored on your PC. The next time you use Phone Editor, the information stored on your PC is updated.

• TOUR NOKIA PHONE EDITOR AND CONTACTS WINDOW



• MANAGE CONTACTS USING PHONE EDITOR



Once you launch Nokia Phone Editor, click the **Phone** folder Phone in the contacts directory. A list of all contacts list entries is displayed in the pane to the right of the contacts directory.

Many of the Phone Editor commands are available from shortcut menus. Select a contacts list entry to edit, then right-click to display a list of the shortcut menu options available. Select the command you wish to perform from the list.

You can also find the same commands in the **Contact** and **Edit** menus, or you can use the available toolbar buttons.

Add a new contact

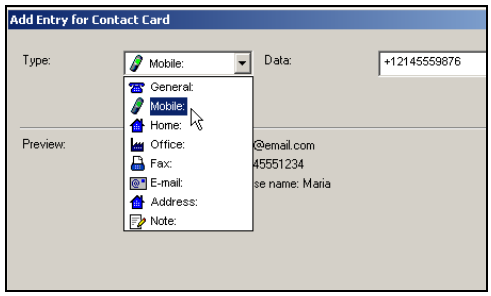
1 Click the **New Contact** button on the toolbar, or select **New Contact** from the shortcut menu.

2 Enter the name of the new contact, then press **Tab**.

3 Enter the phone number, then press **Enter** to save your work.

Add additional information to a contact card

Your phone memory can store up to five phone numbers per name and up to four text fields (e-mail address, postal address, etc.). Once you create the initial contact card, click the **Add entry** button on the contact card. The **Add Entry to Contact Card** appears.



1 Click the **Type** drop-down arrow, then select the type of data you want to add from the list.

2 Press **Tab**, then enter the information in the **Data** field.

3 Click **Add and Create** to save the data.

4 Repeat steps 1—3 to add additional data.

5 Click **OK** *only* when you are finished editing the selected contact.

Important: If you enter data, then click **OK**, the information you entered is not saved. You must click **Add and Create** for the new information to be added to the contact card. Click **OK** only when you want to return to the contact card viewer.

Add numbers or information to an existing card

To add additional numbers or other information to an existing contact card:

1 Select the contact to edit from the list.

2 Click the **Add Entry** button, then follow the instructions above to add new information to the selected contact card.

Edit contact information

To edit information in an existing contact card:

1 Select the contact to edit from the list.

2 Click the contact name, number, or the field you want to edit in the contact card viewer.

3 Make the necessary changes, then press **ENTER** to save your changes.

Delete a contact

To delete a contact, click the contact you want to delete from the list, then click the **Delete** button on the toolbar. You can also right-click the contact you want to delete, then click **Delete** from the shortcut menu.

Change the memory location for a contact

To change a contact storage location (for example, from SIM card to phone memory):

1 Click the contact you want to change.

2 Click **Contacts**, point to **Change Memory**, then click either **Phone** or **SIM**.

Note: Your SIM card does not support multiple numbers per name (or other information such as e-mail addresses). For more information on copying contacts list entries to your SIM card, see your phone user guide.

Copy and move contacts

Your PC hard drive offers you substantially more storage space for names and numbers than your phone memory. You can copy contacts list entries to the Phone Editor PC folder PC to back up your data, or move entries to the PC folder.

1 Click the folder containing the contacts you want to copy or move (for example, **Phone** Phone).

2 Click the contact you wish to copy or move.

Hold the **Shift** key, then click to select multiple contacts adjacent to each other.
Hold the **Ctrl** key, then click to select multiple contacts that are not adjacent to each other.

3 Click the **Copy** button to copy, or click the **Cut** button to move (not copy) the selected contacts.

4 Click the folder where you want the contacts stored (for example, PC folder PC).

Add a contact to a caller group

You can use Phone Editor to assign contacts list entries to one of the available caller groups. If you are unfamiliar with the caller group feature, see your phone user guide.

1 Right-click the contact you wish to assign to a caller group, then click **Caller Group**.

2 Click the drop-down arrow, then click the desired caller group.

3 Click **OK** to change the caller group assignment.

Create a contact group

You can create a contact group that functions as a distribution list when you use Phone Editor to send SMS messages (see page 27). Contact groups are stored in the **Contact Groups** folder.

1 Click the **+** next to the **PC** folder, then click the **Contact Groups** folder.

2 Click **Contact**, point to **New**, then click **Contact Group**.

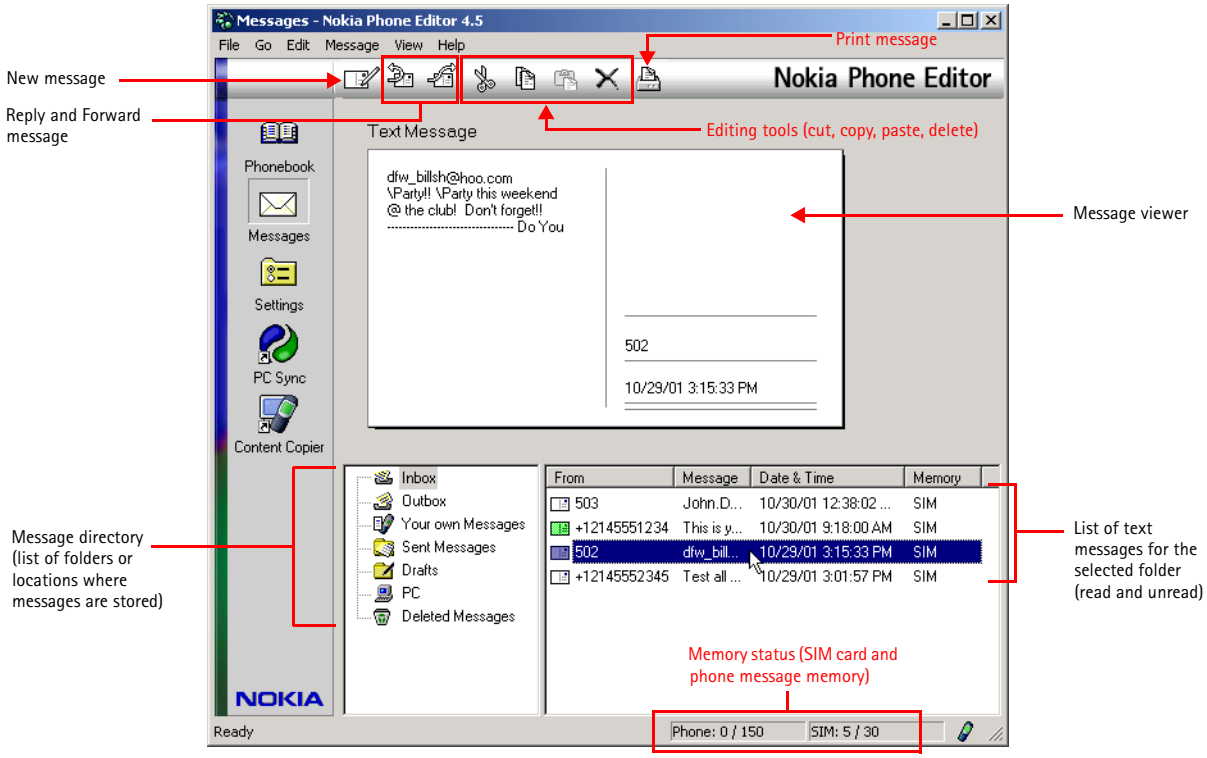
You can also right-click the **Contact Groups** folder, then select **Create Contact Group**.

3 Type the name of the new contact group folder, then press **Enter**.

4 Add members to the contact group by copying or moving contacts into this folder (see "Copy and move contacts").

10

• TOUR THE MESSAGES WINDOW

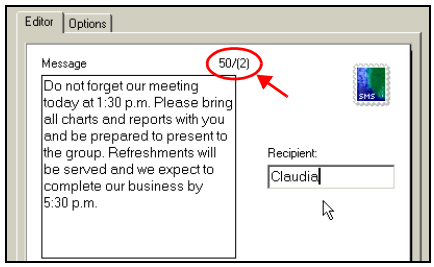


• SEND AND MANAGE SMS MESSAGES

You can use the Nokia Phone Editor **Messages** application to send and manage SMS messages from your PC. When you launch the Phone Editor application (with your phone connected using IR), the contents of your phone **Messages** folders are read into the PC. The messages are organized into the following Phone Editor folders:

Folder name	Description
Inbox	Shows all SMS messages you have received. Green message icon indicates an unread message
Outbox	Stores messages that are being sent or waiting to be sent (in the event the network is unavailable or signal strength is weak).
Your own Messages	Stores a draft of unsent messages you write from your phone, regardless of the folder on your phone in which it was saved. Drafts of unsent messages created using the Phone Editor are saved in the **Drafts** folder.
Sent Messages	Stores a copy of all messages you send using Phone Editor. Enable this option from the Phone Editor **Settings** menu (**Messages** tab).
Drafts	Stores a draft of unsent messages you create using the Phone Editor. Drafts of unsent messages created in your phone are saved in the **Your own Messages** folder.
PC	Stores messages on your PC hard drive.
Deleted Messages	Stores all of the messages you delete using Phone Editor. To permanently delete a message, select the message from the **Deleted Messages** folder, then press the **Del (Delete)** key on your PC keyboard.

Write and send a text message


Editor
Options
Message
50/(2)
Do not forget our meeting today at 1:30 p.m. Please bring all charts and reports with you and be prepared to present to the group. Refreshments will be served and we expect to complete our business by 5:30 p.m.
Recipient:
Claudia

1 Click the **Write Message** button .

2 Enter your message in the **Message** field, observing the character counter visible above the **Message** field.

3 Enter the first few letters of the recipient name (as stored in your contacts list), then click the **Check Names** button .

OR-

Enter the recipient phone number in the **Recipient** field.

4 Click the **Send** button on the toolbar.

Linked text messages

Standard text messages can be up to 160 characters in length; however, your phone can send and receive longer text messages (up to 450 characters). Text messages that exceed 160 characters are automatically split into multiple messages and sent as a series to the recipient. The series of messages is linked by the compatible phone when received and displayed as a single SMS message. For this feature to work properly, your phone (and the phone of the recipient) must support linked message. For more information on linked message, refer to the user guide for your phone.

Note the character counter in the example above. This message has exceeded the standard 160 character limit for SMS messages, so a second text message is automatically created. The total number of text messages is displayed in parentheses after the character count.

For example, **50/(2)** indicates you have already filled one message and have entered 50 characters in the second message.

Work with text messages

To view the messages that you have received, click the **Inbox** folder in the **Messages** directory. Once you receive a text message, you can act on the message in a variety of ways:

Action	Instructions
Read	Double-click the message header in the **Inbox** to view the message. Use the **Next** or **Previous** buttons (or) to view additional messages.

Action	Instructions
Reply	Click the Reply button. Enter your reply message. Verify that recipient contact information is correct, then click the **Send** button.
Forward	Click the Forward button. Enter any additional information. Enter the recipient name or number, then click the **Send** button.
Print	While viewing the message, press the Print button.
Delete	While viewing the message, press the Delete button.

Copy and move messages

Your PC hard drive offers you virtually unlimited storage space for text messages. You can copy messages to the Phone Editor **PC** folder PC to back up your data. Or you can move messages to the PC folder, making more memory available for other entries.

1 Click the folder containing the messages you want to copy or move (for example, **Inbox** Inbox).

2 Click the message you wish to copy or move (or hold **CTRL**, then click to select multiple messages).

3 Click the **Copy** button to copy (or click the **Cut** button to move).

4 Click the folder where you want the messages stored, for example, **PC** folder PC .

Create a new folder

You can create additional folders on your PC for message storage. Use these custom folders to help you organize your saved text messages.

1 Click the **PC folder** PC.

2 Click **Message**, then click **New Folder**

3 Type the name for your new folder, then press **ENTER** to complete the process.

Save a message as a text file

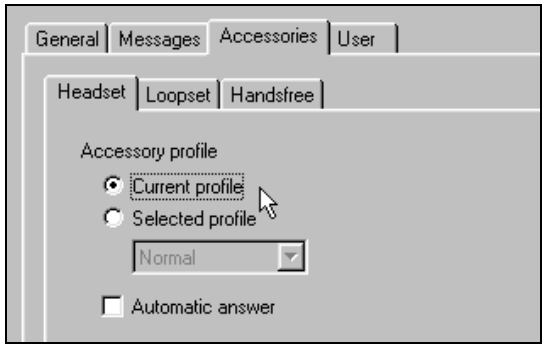
You can also save text messages to your PC as text (**.txt**) files for use with other program (for example, word processing programs). While reading a message, select the **Save As** command from the **Message** menu.

10

• EDIT SETTINGS

You can use the **Settings** application to view and edit a variety of phone settings, as well as configure how Phone Editor handles items you delete. The **Settings** application divides all of the settings into three properties tabs, as described below:

- **General**—is used to specify how you want Phone Editor to process deleted items.
- **Messages**—is used to edit or add message settings group. Also used to enable/disable saving a copy of your sent messages.
- **Accessories**—is used to modify how the various accessories work in conjunction with your phone profiles.
- **User**—is used to edit and store your user information.



• LAUNCH OTHER PC SUITE APPLICATIONS

The Phone Editor navigation bar contains buttons that can be used to launch the other PC Suite applications. Use these buttons while in Phone Editor to launch **PC Sync** or **Content Copier**.

11 Wireless modem setup

Your phone can function as a wireless modem when connected to your PC (using IR or cable). Once your phone is installed and configured properly, your phone works in conjunction with the data or fax software installed on your PC, allowing you to connect to a corporate network, the Internet, or check e-mail wherever you are.

Important: This feature is available only if your service provider's network supports General Packet Radio Service (GPRS), Enhanced Data Rates for GSM Evolution (EDGE), or circuit-switched data (CSD) digital data and fax services (sometimes known as *GSM data*). A subscription to these services may also be necessary. Check with your service provider for more details.

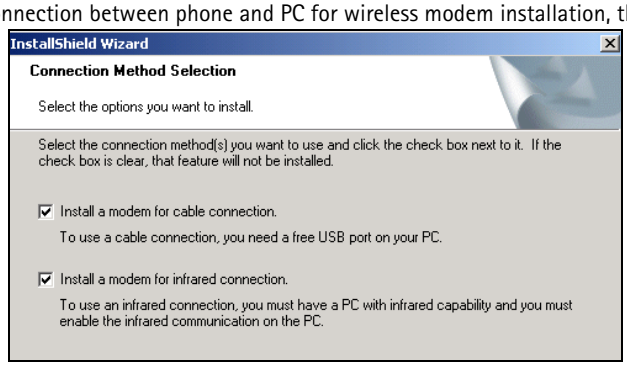
If you wish to connect your phone and PC using IR, make sure that your PC IR port is functioning properly and that there are no device conflicts. Windows cannot detect your phone if the IR port is not functioning properly or if the IR port is conflicting with another device.

Windows 2000 Professional operating system users who wish to connect to a PC using IR, see "IR and Windows 2000 Professional operating system" on page 33 for important information on modem setup for your operating system.

• SELECT NOKIA MODEM OPTION

If you select **Nokia Modem Option** as one of the choices during PC Suite installation, the software needed to use your phone as a wireless modem is installed automatically. The following instructions guide you through the wireless modem setup.

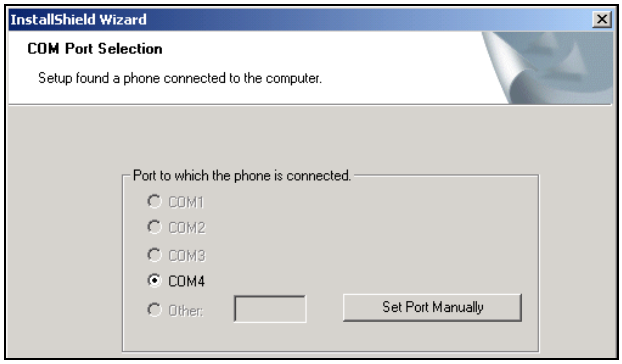
1 Select the methods of connection between phone and PC for wireless modem installation, then click **Next**.


InstallShield Wizard
Connection Method Selection
Select the options you want to install.
Select the connection method(s) you want to use and click the check box next to it. If the check box is clear, that feature will not be installed.
Install a modem for cable connection.
To use a cable connection, you need a free USB port on your PC.
Install a modem for infrared connection.
To use an infrared connection, you must have a PC with infrared capability and you must enable the infrared communication on the PC.

2 Observe the notes regarding your cable connection, then click **Next**.

The installation software attempts to detect your phone connected using the cable. The software for an IR connection is installed automatically.

3 Confirm that the installation program has located your phone connected to the virtual COM port associated with the DKU-5 data cable, then click **Next**.



The Nokia PC Suite software installation begins. When installation progress nears 100%, the Nokia installation software activates the Windows new hardware wizard.

Important: No user interaction is required. The PC Suite installation software interacts with the Windows new hardware wizard to complete the modem installation.

4 Observe any Windows notifications relating to the modem installation process, then click **Finish** to complete the installation process and restart your PC.

5 Verify that your Nokia phone appears in the list of modems in the **Modems Control Panel** after rebooting your PC.

Complete the process by configuring your data software to work with the new modem installation. For more information, refer to "Configure your data and fax software" on page 35.

• PERFORM HARDWARE INSTALLATION FOR IR

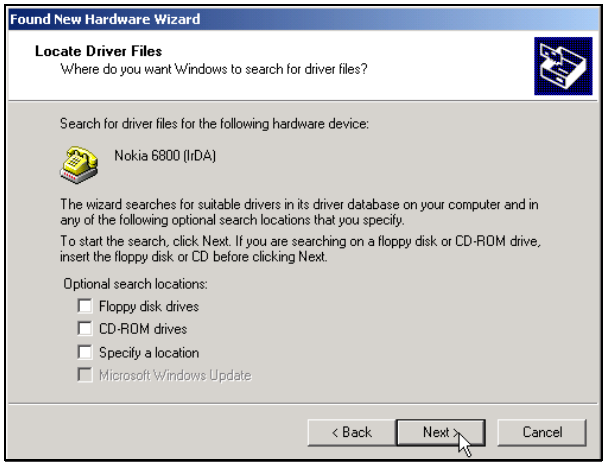
Even though you have installed the **Nokia Modem Option** software during PC Suite installation, if you want to use an IR connection, you must complete the process by establishing an IR connection between your phone and PC. Depending on your phone and your PC software configuration, Windows may automatically complete the installation once your phone is detected.

If the Windows new hardware wizard appears when your phone is first detected:

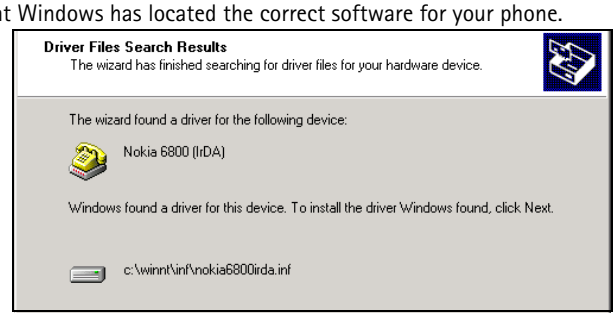
1 Click **Next** when Windows informs you that new hardware has been detected.

Found New Hardware Wizard
Install Hardware Device Drivers
A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device:
Nokia 6800 (IrDA)
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver
< Back
Next >
Cancel

2 Clear any check boxes, then click **Next** and allow Windows to automatically locate the modem software already installed by Nokia PC Suite.


Found New Hardware Wizard
Locate Driver Files
Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
Nokia 6800 (IrDA)
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< Back
Next >
Cancel

3 Click **Next** to confirm that Windows has located the correct software for your phone.


Driver Files Search Results
The wizard has finished searching for driver files for your hardware device.
The wizard found a driver for the following device:
Nokia 6800 (IrDA)
Windows found a driver for this device. To install the driver Windows found, click Next.
c:\winnt\inf\nokia6800irda.inf

4 Accept any Windows alert messages regarding digital signatures or hardware compatibility and continue the installation process.

5 Click **Finish** to complete the IR modem installation.

• IR AND WINDOWS XP (HOME AND PROFESSIONAL)

Even though you have installed the **Nokia Modem Option** software during PC Suite installation, Windows XP detects your phone and installs it automatically as a **Standard Modem over IR link**. For optimal performance, update the Windows modem software manually using the instructions below.

UPDATE THE MODEM DEVICE DRIVER

1 Establish an IR connection between your phone and PC.

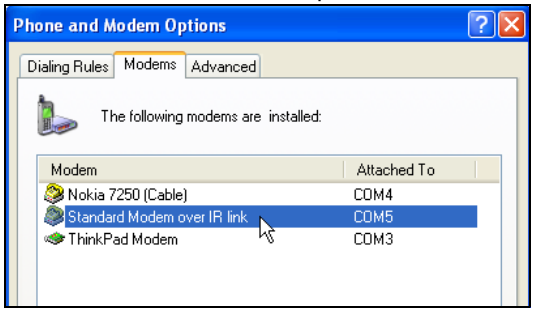
2 Click **Start**, then click **Control Panel**.

3 Click the **Switch to Classic View** link if you are in **Category View**.

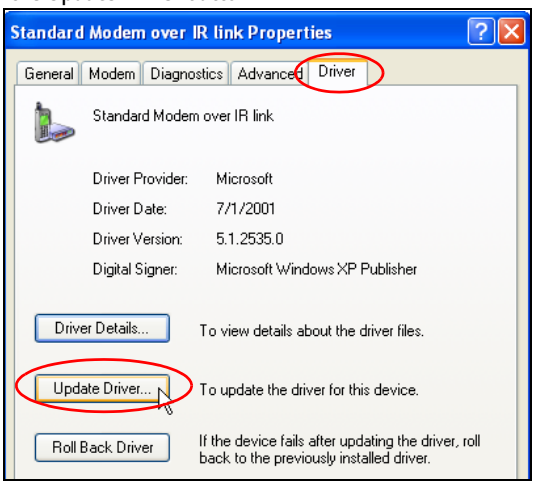
4 Double-click the **Phone and Modem Options** icon, then click the **Modems** tab.

5 Double-click the **Standard Modem over IR link** entry.

You can also click **Standard Modem over IR link**, then click **Properties**.



6 Click the **Driver** tab, then click the **Update Driver** button.

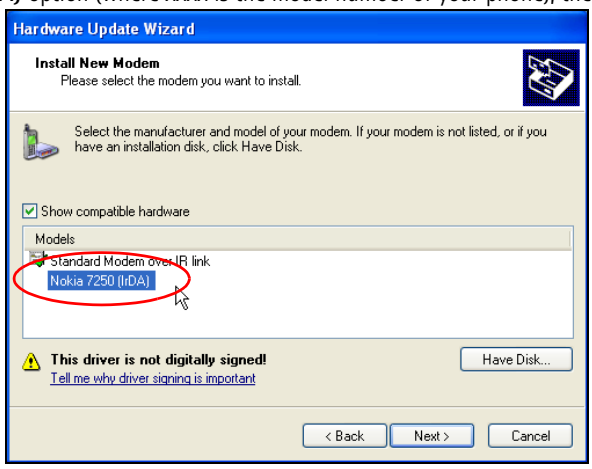


The **Hardware Update Wizard** is launched.

7 Select the **Install from a list or specific location (Advanced)** option, then click **Next**.

8 Select the **Don't search. I will choose** option, then click **Next**.

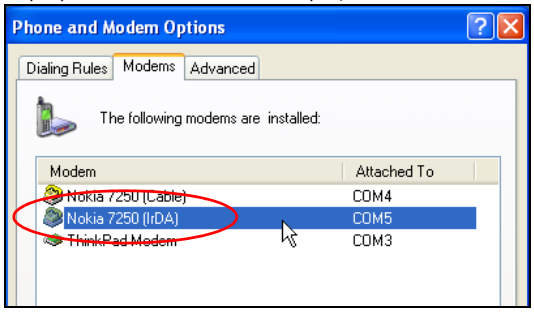
9 Select the **Nokia** *xxxx* **(IrDA)** option (where *xxxx* is the model number of your phone), then click **Next**.


Hardware Update Wizard
Install New Modem
Please select the modem you want to install.
Select the manufacturer and model of your modem. If your modem is not listed, or if you have an installation disk, click Have Disk.
Show compatible hardware
Models
Standard Modem over IR link
Nokia 7250 (IrDA)
This driver is not digitally signed!
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

10 Click **Continue Anyway** when notified about Windows logo compatibility.

11 Click **Finish** when Windows XP informs you that the hardware update is complete, then click **Close** to close the properties window.

The **Phone and Modem Options** properties box should now display the correct name and model number of your phone.



• IR AND WINDOWS 2000 PROFESSIONAL OPERATING SYSTEM

11

Microsoft redesigned its implementation of IR services with the release of Windows 2000 Professional. To make an IR serial connection between IR-equipped Nokia phones and IR-equipped PCs running Windows 2000, you must download and install the following Microsoft software update: **Security Update, August 19, 2001**

Important: Although this security update software appears to be incorporated into **Windows 2000 Security Rollup Package 1 (January, 2002)**, Nokia has determined that the **Security Update, August 19, 2001** software is still required in addition to SRP1.

If you use Microsoft Windows Update to regularly maintain your Windows 2000 system software and have installed **Windows 2000 Service Pack 3** (SP3), your system already has the required software for an IR serial connection with your phone.

Locate Security Update, August 19, 2001

To locate the necessary software:

1 Point your Web browser to: http://www.microsoft.com/windows2000/downloads/

2 Using the site search utility, locate the Microsoft Knowledge Base article: **Q252795**.

3 Click the link to access Security Update, August 19, 2001, located in the list of search results.

4 Follow the instructions for downloading the software to your PC hard drive.

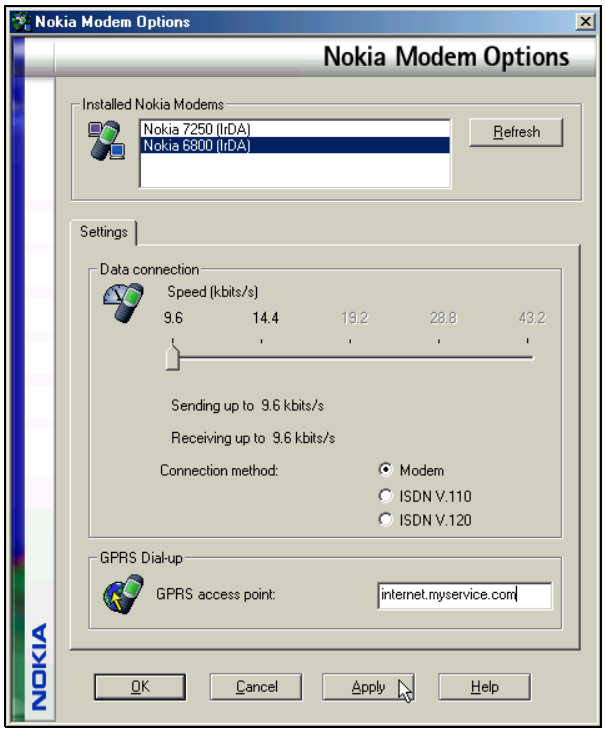
5 Double-click the software update icon to begin the installation.

6 Reboot your computer to insure the changes take effect.

Important: Please make sure to install this update *prior* to installing Nokia PC Suite. If you install this software update after installing PC Suite, you must reinstall PC Suite in order for the wireless modem installation to function properly.

• LEARN ABOUT NOKIA MODEM OPTION CONTROL PANEL

The **Nokia Modem Options** (NMO) application is installed as a part of the PC Suite installation process (when you select this option), and can be found in the Windows Control Panel.



You can use Nokia Modem Options to:

- View all Nokia modems installed and supported by NMO.
- Select the desired type of data service.
- Select the desired data transmission rate.
- Enter a new GPRS access point for modem services.

Important: In order to use high speed circuit-switched data (HSCSD), your Nokia phone must support this feature. Check for the availability of HSCSD and other digital data options shown in NMO before making a digital data call. A subscription to digital data and fax services may be required. Contact your service provider for more information.

Note: Nokia 6200 and 6800 phones do not support HSCSD.

12 Configure your data and fax software

Before you can use your phone to send and receive digital data and fax calls, you must configure your data software so that it uses your phone rather than your existing modem. You may consider creating a separate set of dialing properties to use when your phone is connected to your computer, rather than changing any existing settings.

The following pages are designed to help you configure some of the more popular applications to be used with your Nokia phone.

• OBSERVE THE FOLLOWING REQUIREMENTS

Before making or receiving digital data or fax calls:

- You must subscribe to digital data and fax services with your service provider.
- Your phone must be powered up, and you must be in a digital network. Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.
- Your PC IR port or the DKU-5 data cable must be working properly.
- You must establish a connection between your PC.
- You must already have installed your phone as a modem.
- Your data software must be running and configured to recognize your Nokia phone as the active modem.

• LEARN ABOUT DIGITAL DATA

Circuit switched data (CSD)

Until now, your only wireless data option has been your service provider's CSD network. Using CSD, you create a *virtual circuit* between your phone (as a wireless modem) and your Internet service provider (ISP), corporate network, or a fax machine.

As long as a CSD call is active, you are typically being billed for the air time (whether you are transmitting/receiving data or not). Note that the fastest CSD data rate available is 14.4 kilobits per second (kb/s).

General packet radio service (GPRS)

Your Nokia 5100, 6100, 6200, 6610, 6800, 7210, 7250 or 7250i phone is one of the new generation of phones to take advantage of a higher-speed data protocol called GPRS (general packet radio service). The benefits to you include:

- **Higher data transfer rates**—data rates up to 40.2 kb/s over the wireless network
- **Data on-demand**—data transferred only when requested and billing is based on the amount of data you transfer

GPRS data services work much the same way as a PC connected to a corporate network. Information is sent in *bursts* and *packets* only when there is a request for information. Otherwise, the PC or phone remains in an idle state.

Enhanced data rates for GSM evolution (EDGE) (Nokia 6200 only)

The Nokia 6200 series phone supports an enhanced version of the GPRS data protocol called EDGE (enhanced data rates for GSM evolution). EDGE functions much like GPRS, but offers even higher data rates over the wireless network (up to 118.8 kb/s).

Use GPRS/EDGE to access the Internet

Your wireless service provider now becomes your *Internet* service provider when you use your phone as a wireless GPRS or EDGE modem. You no longer have to configure your laptop computer or handheld device for connection to your normal ISP when you want to browse the Web or check your e-mail.

Access corporate network and e-mail using a VPN

Virtual private network (VPN) services provide an encrypted communications tunnel through the Internet, creating a secure connection between your PC and corporate network using a high-speed or broadband Internet connection.

If you plan on using packet data services to access your corporate network e-mail system, Intranet, or LAN, your corporate network must have VPN services available. In addition, your network administrator must grant you permission to access the corporate network through the VPN.

Additional software on your PC (or modification of the current network settings on your PC) may also be required. For more information on VPN services, contact your network administrator.

Important: Some ISPs may not permit access to certain services from Internet connections outside of your ISP domain (for example, checking or sending e-mail and newsgroup access). Therefore you may not be able to use high-speed packet data in conjunction with some of your home ISP services. Contact your ISP for more information on accessing services from outside their domain.

Choose the type of data services you need

Your phone is capable of functioning as a wireless modem for both types of data services. There are times when it may be advantageous or appropriate to use one type of data service over another.

GPRS/EDGE

You may prefer using GPRS or Edge data services when:

- You have large amounts of data to transfer and time or speed is a factor.
- You are traveling and want to surf the Web or check e-mail using a wireless Internet connection. Because your wireless service provider is your Internet access point, you do not have to search for the local dial-up number for your home ISP.

CSD

You may need to use CSD services when:

- You need to send a fax to a machine connected to a traditional phone line.
- Your corporate e-mail or ISP e-mail system does not allow checking of e-mail from other Internet access points.
- Your corporate network has not established a GPRS access point to allow secure access to its network from your wireless service provider.

• CONFIGURE YOUR PHONE FOR GPRS/EDGE DATA

Before you can use your phone as a wireless modem on your service provider's GPRS or EDGE data network, your phone must be configured for these data services.

Acquire GPRS/EDGE modem settings

Your service provider should supply you with the GPRS or EDGE Access Point Name (APN). The access point name is used by your phone to locate your service provider's gateway to the Internet. APNs look similar to other Internet-style names or addresses:

internet.yourserviceprovider.com

Your service provider may have already programmed this information into your phone.

Tip: Your phone can store up to five different GPRS/EDGE modem configurations and APNs.

Enter GPRS/EDGE modem settings

1. From the Start screen, press **Menu**.
2. Locate and select the following menu options: **Connectivity** > **GPRS** > **GPRS modem settings** > **Edit active access point**, then press **Select**.
3. Scroll to **GPRS access point**, then press **Edit**.
4. Enter the name of the GPRS access point (supplied by your service provider), then press **OK**.
5. Scroll to **Alias for access point**, then press **Rename**.
6. Enter a user-friendly name for this configuration (for example, **My Internet**), then press **OK**.

Activate an access point

Once you enter an APN and alias (user-friendly name) for an access point, you must activate that APN for use.

1. From the Start screen, press **Menu 12-2-2-1 (Connectivity** > **GPRS** > **GPRS modem settings** > **Active access point)**, then press **Select**.
2. Press **Select** again to view the list of available access point configurations.
3. Scroll to the desired access point alias, then press **Activate**.

Your phone is now configured to access the Internet using the selected APN. You must now configure your data software to establish a connection to the Internet using this APN.

Tip: You can also identify an APN using **Nokia Modem Option**. APN information entered here overrides the active access point selected in your phone.

• USE MICROSOFT DIAL-UP NETWORKING FOR GPRS/EDGE DATA

You can use Microsoft Dial-up Networking to connect to the Internet through your wireless service provider's access point. To access the GPRS or EDGE data network, use the following dialing string instead of a traditional phone number: ***99#**

Create a new connection (Windows 98/ME)

1 Double-click the **My Computer** icon, then double-click the **Dial-up Networking** folder.

Windows ME users: Click **Start**, point to **Settings**, then click **Dial-up Networking**.

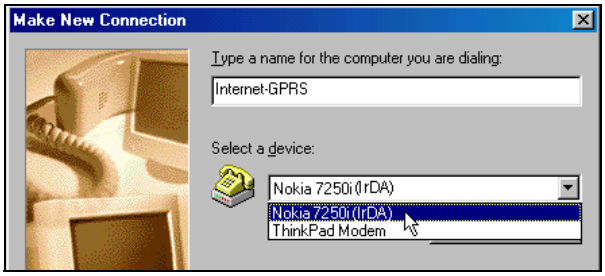
2 Double-click the **Make New Connection** icon.

3 Type a name for your new connection (for example, **Internet-GPRS**).

4 Click the drop-down arrow and select your Nokia phone as the modem to use, then click **Next**.

5 Enter the GPRS network access code, ***99#** , then click **Finish**.

You may need to remove area code information so only the access code appears.



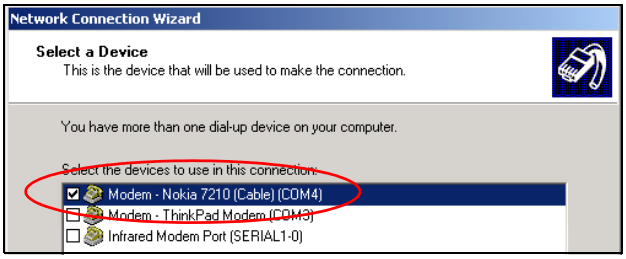
Create a new connection (Windows 2000)

1 Click **Start**, point to **Settings**, then click **Network and Dial-up Connections**.

2 Double-click **Make New Connection**, then click **Next** to begin the **Network Connection Wizard**.

3 Verify that **Dial-up to private network** is selected, then click **Next**.

4 Select only your Nokia phone as the active modem, then click **Next**.


Network Connection Wizard
Select a Device
This is the device that will be used to make the connection.
You have more than one dial-up device on your computer.
Select the devices to use in this connection:
Modem - Nokia 7210 (Cable) (COM4)
Modem - ThinkPad Modem (COM3)
Infrared Modem Port (SERIAL1-0)

5 Enter the GPRS network access code, ***99#** , then click **Next**.

6 Select the connection availability, then click **Next**.

7 Type a name for your new connection (for example, **Internet-GPRS**), then click **Finish**.

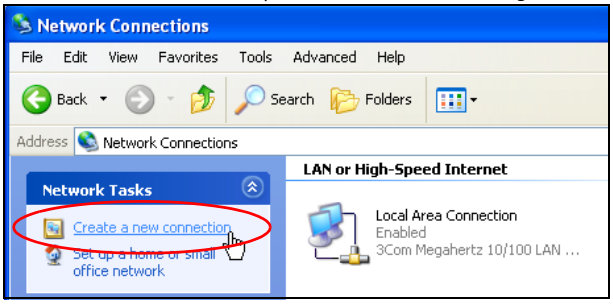
Your new Dial-up Networking connection is now ready for use. You may need to remove information found in the **User name** field prior to creating a GPRS or EDGE data connection.

Create a new connection (Windows XP)

1 Click **Start**, then click **Control Panel**.

2 Double-click **Network Connections**.

3 Click **Create a new connection** in the **Network Tasks** pane, then click **Next** to begin the **New Connection Wizard**.



4 Verify that the **Connect to the Internet** option is selected, then click **Next**.

12

5 Click the **Set up my connection manually** option, then click **Next**.

6 Click the **Connect using a dial-up modem** option, then click **Next**.

7 Select only your Nokia phone as the active modem, then click **Next**.

8 Type a name for your new connection (for example, **Internet-GPRS**), then click **Next**.

9 Enter the GPRS network access code, ***99#** , then click **Next**.

10 Enter the username and/or password as supplied by your wireless service provider (if required).

11 Cancel any of the options on the **Internet Account Information** dialog box that you do not need, then click **Next**.

12 Click **Finish** to complete the Wizard.

Connect to the GPRS/EDGE network

Make sure you establish a connection between your phone and PC before making a digital data call.

1 Double-click the new connection (for example, **Internet-GPRS**).

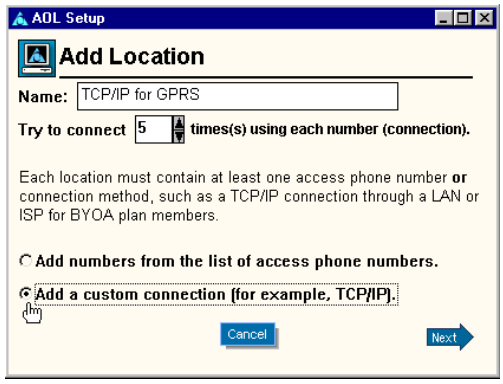
2 Remove any user name or password, then click **Connect.**

Your phone displays **Creating GPRS connection** while establishing a connection. Once a successful connection has been made, the **G** status indicator appears in the upper left corner of the phone screen.

Note: Your Windows operating system displays its normal series of authentication messages while the connection is being established.

• CONFIGURE AMERICA ONLINE TO CONNECT USING GPRS/EDGE

You can use the GPRS or EDGE network to access your America Online (AOL) account. However, instead of using the AOL dial-up number, you connect using the AOL TCP/IP connection option.


AOL Setup
Add Location
Name:
TCP/IP for GPRS
Try to connect
5
times(s) using each number (connection).
Each location must contain at least one access phone number or connection method, such as a TCP/IP connection through a LAN or ISP for BYOA plan members.
Add numbers from the list of access phone numbers.
Add a custom connection (for example, TCP/IP).
Cancel
Next

To configure AOL for TCP/IP access:

1 From the AOL **Sign On** screen, click **SETUP.**

2 Click **Expert Setup**, then click the **Locations** tab.

3 Click the **Add Location** button.

4 Enter a name for this location (for example, **TCP/IP for GPRS**).

5 (Windows 98/ME) Click the **Add a custom connection** option, then click **Next**.

(Windows 2000/XP) Click the **Select a connection using one of these available devices** options, select the **TCP/IP** option from the drop-down list, then click **Next**.

6 Enter a name for this type of connection in the **Add number (Connection)** screen (for example, **GPRS**).

7 Verify that TCP/IP is the type of connection selected, then click **OK**.

8 Click **Close** to close the **Connection Setup** window.

Connect to AOL

1 Double-click the **Dial-up Networking** configuration for GPRS data (for example, **Internet-GPRS**).

2 Click **Connect** and establish a connection to the Internet.

3 Launch the AOL program.

4 Select the TCP/IP location option on the **Sign On** screen (for example, **TCP/IP for GPRS**), then click **SIGN ON**.

Your PC connects to AOL using your wireless service provider's Internet access.

• CONFIGURE YOUR DATA SOFTWARE FOR CSD

Before you can use your phone to send and receive data calls using CSD, you must also configure your data software so that it uses your phone as the active modem (rather than your existing modem). The following pages are designed to help you configure some of the more popular applications for CSD calls.

• CREATE DIAL-UP NETWORKING CONNECTION FOR CSD

You may be using Microsoft Dial-up Networking feature to connect to your Internet service provider, or to make a remote connection to your corporate network (including corporate e-mail server using Microsoft Outlook, or Lotus Notes).

Rather than altering the existing configurations you use when dialing with your existing modem, consider creating a new connection exclusively for use with your Nokia phone (as detailed below).

Gather configuration information

You need the phone number for your Internet service provider or for your company remote access server. When testing the new connection, you also need your user name and password. You may also be required to enter additional configuration information such as a domain name or IP addresses for DNS servers. Your Internet service provider or corporate help desk should supply you with all the information you need.

Create a new CSD connection

Begin with the instructions for creating a Dial-up Networking connection for a GPRS data call. Depending on your computer operating system, see "Create a new connection (Windows 98/ME)" on page 37, "Create a new connection (Windows 2000)" on page 37, or "Create a new connection (Windows XP)" on page 37.

1 Enter the phone number for your local ISP or corporate network instead of the GPRS access number.

2 Complete the Dial-up Networking Wizard, then click **Finish** to save the new configuration in your Dial-up Networking folder.

3 Configure any necessary network parameters for this connection prior to dialing (IP address of **DNS** or **WINS**, etc.) by clicking the **Properties** button (or right-click on your new Dial-up Networking icon, then click **Properties**).

Note: For more information on configuring your network connection, consult your Internet service provider or your company help desk.

Connect to the network

Establish a connection between your phone and PC before making a digital data call.

1 Double-click the new connection (for example, **Internet-Nokia phone**).

2 Enter your user name and password, then click **Connect.**

3 Observe the notifications on your phone screen during the connection process.

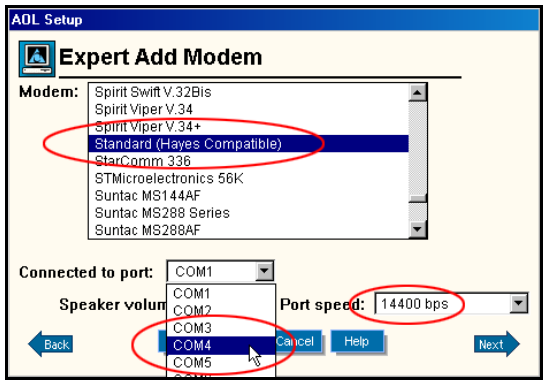
Once a successful connection has been made, your phone screen indicates an active data call.

Note: Your Windows operating system displays its normal series of messages while the connection is being established and verified.

Note: Your wireless service provider must support digital data and fax services for this feature to work. Contact your service provider for more information.

• CONFIGURE AOL FOR CSD

Your AOL software can be configured to use your Nokia phone as a wireless modem when you need to connect using CSD.



MODEM SETUP

To add your Nokia phone as a modem to the AOL connection setup:

1 From the **Sign On** screen, click **SETUP.**

2 Click **Expert Setup**, then click the **Devices** tab.

3 Click the **Expert Add** button.

4 Verify that **Modem (telephone line connection)** is selected as the type of connection device you want to add, then click **Next**.

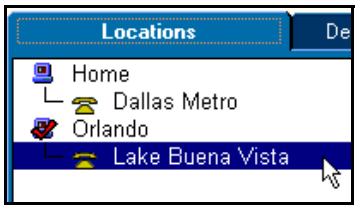
5 Select the generic modem option (for example, **Standard (Hayes Compatible)**) from the list of modems.

6 Select the COM port assigned to your PC IR COM port.

7 Set the port speed to **14400 bps**, then click **OK**.

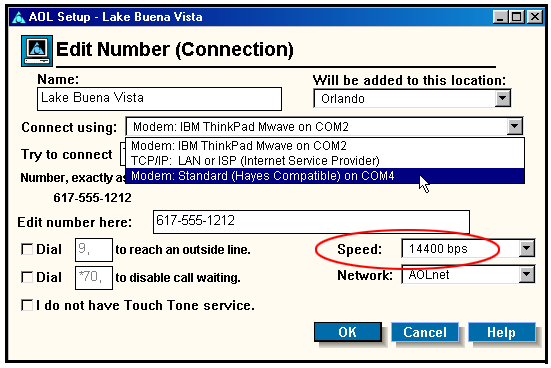
Modify AOL Locations

Now that your Nokia phone is configured for use by the AOL software, you need to modify your **Locations** settings to use your Nokia phone as the active modem.



To modify an existing location:

1. From the **Connection Setup** screen, click the **Locations** tab.
2. Double-click the number for the location you wish to use with your Nokia phone.
3. Click the **Connect using** drop-down arrow, then click **Modem: Standard (Hayes compatible) on COM***nn* (where *nn* is COM port for your PC).



4. Click the **Speed** drop-down arrow, then click **14400 bps**.
5. Click **OK** to confirm your changes, then click **Close** to return to the **Sign On** screen.

• OTHER DATA APPLICATIONS

There are several other types of telecommunications applications that can be used with your Nokia phone and your computer. Some of these include:

- **Terminal Programs** are used to connect to BBS services (bulletin board system) and mainframe or mini-mainframe computers. Quarterdeck Procomm Plus, Microsoft Works (Communications Module), R-Link, and P-Term are just a few examples of this type of program.
- **Remote Administration** are used to access your home or office computer remotely for file sharing or remote control. Symantec PCAnywhere, McAfee Remote Desktop and Reach Out, Farallon's Timbuktu, Claris Apple Remote Access, and Attachmate EXTRA! are a few examples of this type of program.
- **On-line Services** are used to access the Internet, or discussion and information forums within the service. On-line services provide their own proprietary software interface for accessing their service. America Online, CompuServe, MSN (Microsoft Network), and Prodigy are just a few on-line service providers that use their own proprietary software.

Important: These examples are provided for your information only. Nokia does not endorse or provide support for any of the above applications or services.

• CONFIGURE YOUR FAX SOFTWARE

Before you can use your phone to send and receive fax calls, you must configure your fax software so that it uses your phone as the active modem (rather than your existing modem).

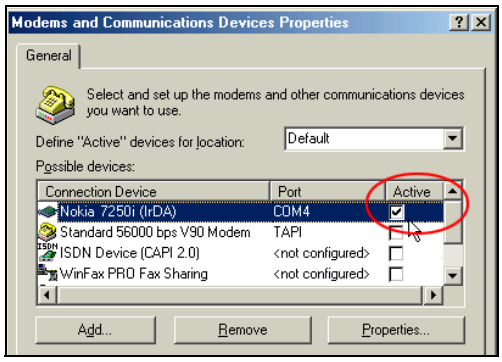
Many of the most popular fax programs should support multiple modems connected to a PC or laptop computer, including Symantec WinFax Pro, Smith Micro Software HotFax (version 3.02 or newer), Castelle FaxPress, etc.

Note: Data or fax calls using your Nokia phone are possible only if your service provider supports digital data and fax service. You may be required to subscribe to these services. Check with your service provider before attempting to send or receive faxes.

Select the correct modem

Each fax application typically has a setup menu that can be used to alter the settings for your modem, as well as define how and when calls are to be received (for example, immediately, on the third ring, etc.). This menu may also provide you with a list of available modems that you can use when sending and receiving fax calls.

Use your fax program settings menu to select your Nokia phone as the active fax modem.



Confirm hardware settings

Use the modem properties dialog box of your fax software to confirm the following settings:

- Communications port: COMn (where n is the COM port number assigned to your phone)
- Initialization: 19200 bps
- Modem type: Class 2.0
- Flow control: Hardware

Observe important notes about data and fax calls

- Avoid terminating the digital data or fax call by pressing the key. This may cause your data or fax application to temporarily lock up and could cause loss of data. Use your data or fax software to terminate the data or fax call.
- Digital data or fax calls cannot be initiated using your phone keypad. All data and fax calls must be initiated using your fax software.
- Any touch tones (DTMF tones) needed for calling cards, special long-distance access numbers, etc. must be programmed into the dialing string.

13 PalmOS device configuration

Important: The following instructions are based on PalmOS (operating system) software 3.3 and those devices that can run this version (or newer versions) of the operating system. For more information, visit:

http://www.palmos.com/

• LEARN ABOUT YOUR PHONE AS A WIRELESS MODEM

Important: This feature is available only if your service provider's network supports general packet radio service (GPRS), enhanced data rates for GSM evolution (EDGE), or circuit-switched data (CSD) digital data and fax services (sometimes known as *GSM data*). A subscription to these services may also be necessary. Check with your service provider for more details.

It is possible to make a serial connection between your phone and your PalmOS device and use it as a wireless modem to perform HotSync operations with your PC.

In addition, third-party software is also available that allows you to browse the Web, send and receive faxes, and send or receive e-mail directly to your PalmOS device. For example, AOL provides a software program that allows you to check your AOL e-mail from your handheld device. For more information, type AOL keyword: **PDA**

Check your owners manual or the PalmOS web site for more information on third-party software.

Important: To access the Internet from your handheld device using CSD, you must have an existing dial-up account with a full-service Internet provider or dial-up access to a corporate network. Connection to online services such as CompuServe or Prodigy was not available at the time this guide was prepared.

Learn about GPRS, EDGE, and CSD

Before you can use your phone as a wireless modem with your PalmOS device, there are a few things you need to know about recent developments in the wireless data technology. Once you understand more about the different types of digital data and fax services available to you, you can configure your data or fax software for the right type of service.

Please read "Learn about digital data" on page 35 for more information about digital data services before trying to configure your PalmOS device.

• USE AN IR CONNECTION

Your PalmOS device may be equipped with an IR port. You may find it more convenient to connect your phone and PalmOS device using IR, especially if you prefer to leave your data cable or docking cradle attached to your PC.

Before dialing, make sure you enable IR communications on your PalmOS device, then align the IR ports of the two devices. The preferable distance between the two devices in an IR connection is a range of three inches to three feet maximum. There must be no obstructions between the two devices and the IR ports of the two devices have to be pointing at each other.

Your Nokia phone is a Class 1 Laser Product.

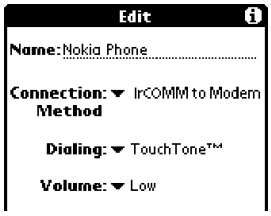
• MODIFY CONNECTIONS PREFERENCES

Before you can make data calls using your Palm OS device and your Nokia phone as a wireless modem, you need to create a new connection device in the PalmOS **Connections** preferences folder.

1 Tap the **Applications** icon, then tap **Prefs**

2 Tap the **Categories** drop-down menu, then tap **Connection**.

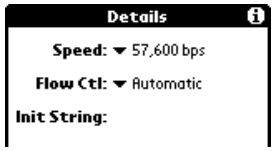
3 Tap **New**. Enter the name of the new connection device (for example, **Nokia**).



4 Click the **Connection Method** drop-down arrow, then click **IrCOMM to Modem**.

5 Click **Details**.

6 Set speed to **57,600 bps** and flow control to **Automatic**.



7 Click **OK** when finished, then click **OK** to close the Edit window.

Your new Nokia phone configuration should now appear in the list of **Connection** options, and is available to all applications that support a modem connection.

• MAKE A DIAL-UP CONNECTION

Once you have a modem configuration for your Nokia phone, you can use that configuration with any existing TCP/IP or network preferences, as well as any third party E-mail, Web browser, or fax programs.

Create a GPRS/EDGE data connection

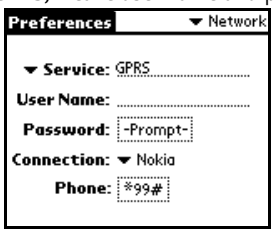
Now that your Nokia phone is configured as a wireless modem for use with your PalmOS device, you need to create a dial-up network service configuration to connect you to the GPRS data network.

1 Tap the **Applications** icon, then tap **Prefs**.

2 Tap the **Categories** drop-down menu, then tap **Network**.

3 Tap the menu button, then tap **New**.

4 Enter a name for this service (for example, **GPRS**). Leave user name and password fields blank.



5 Tap the **Connection** drop-down arrow, then tap the name of the connection device (for example, **Nokia**).

6 Enter the GPRS network access code, `*99#` , in the **Phone** field.

The setup is now complete.

CONNECT TO THE NETWORK

1 Establish a connection between your phone and handheld device, then tap **Connect**.

2 Tap the **Applications** menu, then launch the desired application (Web browser, e-mail, etc.).

Create a CSD data connection

Once your Nokia phone is configured as a wireless modem for use with your PalmOS device, you need to modify your existing Windows RAS configuration to use your phone as the active modem.

1 Tap the **Applications** icon, then tap **Prefs**.

2 Tap the **Categories** drop-down menu, then tap **Network**.

3 Tap the **Services** drop-down arrow, then tap **Windows RAS**.

4 Tap the **Connection** drop-down arrow, then tap the name of the connection device (for example, **Nokia**).

Your existing **Windows RAS** connection is now configured to dial using your Nokia phone as a wireless modem.

14 Pocket PC device configuration

• LEARN ABOUT YOUR PHONE AS A WIRELESS MODEM

Important: This feature is available only if your service provider's network supports general packet radio service (GPRS), enhanced data rates for GSM evolution (EDGE), or circuit-switched data (CSD) digital data and fax services (sometimes known as *GSM data*). A subscription to these services may also be necessary. Check with your service provider for more details.

You can use your Nokia phone as a wireless modem with Pocket PC devices, then use these devices to check e-mail or browse the Web. In addition, AOL offers a software program that allows you to check your AOL e-mail from your handheld device. For more information, go to AOL keyword: **PDA**

You may also be able to send and receive faxes from your Pocket PC device. However, this may require additional software from another manufacturer. Check the user guide or Web site for your handheld device, or the Microsoft Pocket PC Web site for more information on available software:

http://www.microsoft.com/mobile

Important: To access the Internet with your handheld device using CSD, you must have an existing dial-up account with a full-service Internet provider or dial-up access to a corporate network. Connection to online services such as CompuServe and Prodigy was not available at the time this guide was written.

Learn about GPRS, EDGE, CSD

Before you can use your phone as a wireless modem with your data or fax software, there are a few things you need to know about recent developments in the wireless data technology. Once you understand more about the different types of digital data and fax services available to you, you can configure your data or fax software for the right type of service.

Please read "Learn about digital data" on page 35 for more information about digital data services before trying to configure your Pocket PC device.

• USE AN IR CONNECTION

Your Pocket PC device should be equipped with an IR port. You may find it more convenient to connect your phone and Pocket PC device using IR, especially if you prefer to leave your data cable or docking cradle attached to your PC.

Before dialing, make sure you enable IR communications on your Pocket PC device, then align the IR ports of the two devices. The preferable distance between the two devices in an IR connection is a range of three inches to three feet maximum. There must be no obstructions between the two devices and the IR ports of the two devices have to be pointing at each other.

Your Nokia phone is a Class 1 laser product.

• CONFIGURE A GPRS/EDGE MODEM CONNECTION

The procedure for creating a new modem connection for use with your Nokia phone is similar to that found in the various Windows desktop operating systems.

Important: You may need to first disable the Pocket PC option that automatically begins synchronization when an IR connection is detected. For more information on this task, consult the user guide for your handheld device.

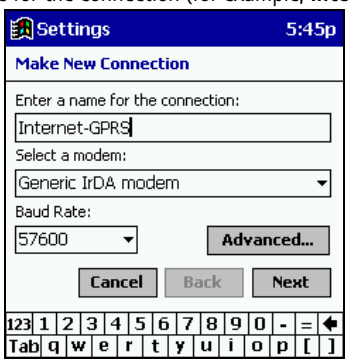
Create a modem connection

To create a new modem connection for use with your wireless service provider's GPRS or EDGE network:

1 Tap the **Start** icon , then tap **Settings**.

2 Tap the **Connections** tab, then tap **Modem**.

3 Tap **New Connection**, then enter a name for the connection (for example, **Internet-GPRS**).

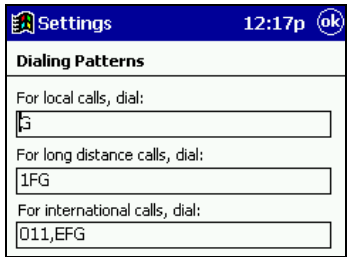


4 Click the modem selection drop-down arrow, then select the **IrCOMM** or **Generic IrDA** option.

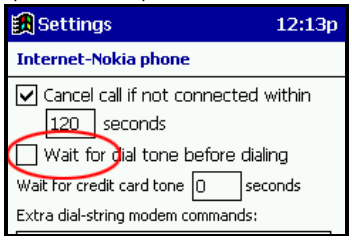
5 Set the baud rate to **57600**, then tap **Next**.

6 Enter the GPRS network access code, `*99#` , in the **Phone number** field, then click **Next**.

Important: You may need to click the **Dialing** tab and modify the way Pocket PC dials to connect to the GPRS network. For more information on dialing patterns, consult the documentation for your handheld device.



7 Tap **Wait for dial tone** to deselect this option, then tap **Finish**.


Settings 12:13p
Internet-Nokia phone
Cancel call if not connected within
120 seconds
Wait for dial tone before dialing
Wait for credit card tone 0 seconds
Extra dial-string modem commands:

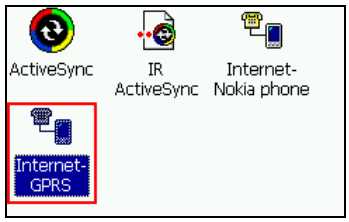
Your new dialing configuration is now visible in the **Modem Connections** list.

Use your new GPRS/EDGE modem connection

To connect to your Internet service provider or corporate network:

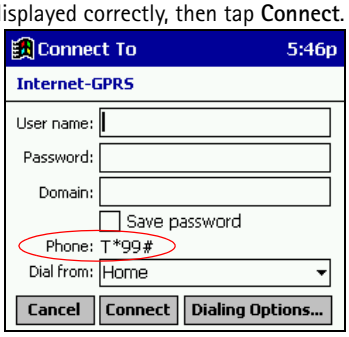
1 Tap the **Start** icon , then tap **Programs**.

2 Tap **Connections**, then tap your new modem connection (for example, **Internet-GPRS**).



14

3 Verify that the GPRS access number is displayed correctly, then tap **Connect**.



When you have successfully logged on to the network, the Pocket PC status screen will show the message **Device Connected**.

4 Launch your browser or e-mail application.

Before you make a digital data call

Before initiating the data call from your Pocket PC device, make sure you establish a connection between your phone and handheld device.

See "Understand requirements for digital data calls" on page 1.

• CONFIGURE A MODEM CONNECTION-CSD

The procedure for creating a new modem connection for use with your Nokia phone is similar to that found in the various Windows desktop operating systems. However, before you can configure your Pocket PC for a CSD data call, you need to obtain the required setup information from your ISP or corporate network Helpdesk.

Important: You may need to first disable the Pocket PC option that automatically begins synchronization when an IR connection is detected. For more information on this task, consult the user guide for your handheld device.

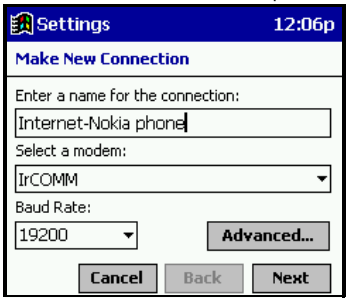
CREATING A MODEM CONNECTION

To create a new Pocket PC modem connection for your Internet service provider or corporate network:

1 Tap the **Start** icon , then tap **Settings**.

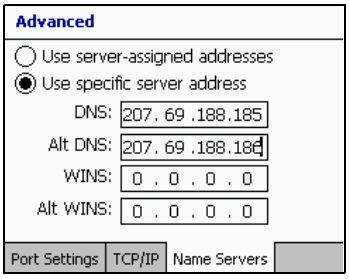
2 Tap the **Connections** tab, then tap **Modem**.

3 Tap **New Connection**, then enter a name for the connection (for example, **Internet-Nokia phone**).



4 Click the modem selection drop-down arrow, then select the **IrCOMM** or **Generic IrDA** option (for IR).

5 Tap **Advanced** to access additional configuration properties for **Port Settings**, **TCP/IP**, and **Name Servers** (if required by your corporate network or ISP).



6 Tap **OK** to close the **Advanced** properties window, then tap **Next**.

7 Enter the area code (if necessary) and phone number, then tap **Next**.

8 Tap **Wait for dial tone** to deselect this option, then tap **Finish**. Your new dialing configuration is now visible in the **Modem Connections** list.

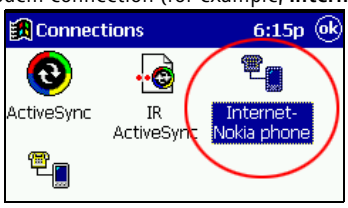
You may need to click the **Dialing** tab and modify the way Pocket PC dials local, long distance, and international numbers. For more information on dialing patterns, consult the documentation for your handheld device.

Use your new CSD modem connection

To connect to your Internet service provider or corporate network:

1 Tap the **Start** icon , then tap **Programs**.

2 Tap **Connections**, then tap your new modem connection (for example, **Internet-Nokia phone**).



3 Enter your user name, password, and domain (if necessary).

4 Click **Connect**.

When you have successfully logged on to the network, the Pocket PC status screen displays the message **Device Connected**.

5 Launch your browser or e-mail application.

Note: For information on how to configure the Pocket PC Web browser or e-mail software, consult the documentation for your handheld device.

Before you make a digital data call

Before initiating the data call from your Pocket PC device, make sure you establish a connection between your phone and handheld device. Also see “Understand requirements for digital data calls” on page 1.

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